

Data Path : Z:\HPCHEM1\BNA F\Data\BF040617\  
 Data File : BF094231.D  
 Acq On : 6 Apr 2017 16:35  
 Operator : SJ/MA  
 Sample : I2537-06MSD  
 Misc :  
 ALS Vial : 15 Sample Multiplier: 1

Instrument :  
 BNA\_F  
 ClientSampleId :  
 B4-(0-5)MSD

Quant Time: Apr 06 17:08:55 2017  
 Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF032217.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Fri Mar 31 14:38:29 2017  
 Response via : Initial Calibration

| Internal Standards        | R.T.   | QIon | Response | Conc  | Units | Dev(Min) |
|---------------------------|--------|------|----------|-------|-------|----------|
| 1) 1,4-Dichlorobenzene-d4 | 5.851  | 152  | 165951   | 20.00 | ng    | -0.05    |
| 21) Naphthalene-d8        | 7.357  | 136  | 698214   | 20.00 | ng    | -0.05    |
| 38) Acenaphthene-d10      | 9.498  | 164  | 319154   | 20.00 | ng    | -0.05    |
| 63) Phenanthrene-d10      | 11.322 | 188  | 546069   | 20.00 | ng    | -0.05    |
| 75) Chrysene-d12          | 14.574 | 240  | 380177   | 20.00 | ng    | -0.05    |
| 86) Perylene-d12          | 16.192 | 264  | 274035   | 20.00 | ng    | -0.06    |

## System Monitoring Compounds

|                          |        |     |         |        |    |       |
|--------------------------|--------|-----|---------|--------|----|-------|
| 5) 2-Fluorophenol        | 4.399  | 112 | 1169210 | 119.00 | ng | -0.04 |
| 7) Phenol-d6             | 5.469  | 99  | 1512374 | 124.43 | ng | -0.04 |
| 23) Nitrobenzene-d5      | 6.504  | 82  | 943421  | 77.11  | ng | -0.05 |
| 41) 2,4,6-Tribromophenol | 10.475 | 330 | 305060  | 120.96 | ng | -0.05 |
| 44) 2-Fluorobiphenyl     | 8.681  | 172 | 1558556 | 74.48  | ng | -0.05 |
| 78) Terphenyl-d14        | 13.298 | 244 | 1208897 | 71.28  | ng | -0.05 |

## Target Compounds

|                               |       |     |         |       |    | Qvalue |
|-------------------------------|-------|-----|---------|-------|----|--------|
| 2) 1,4-Dioxane                | 2.240 | 88  | 161112  | 34.13 | ng | 97     |
| 3) Pyridine                   | 2.728 | 79  | 388858  | 30.23 | ng | 98     |
| 4) n-Nitrosodimethylamine     | 2.693 | 42  | 216684  | 40.93 | ng | 91     |
| 6) Aniline                    | 5.481 | 93  | 293567  | 17.36 | ng | # 1    |
| 8) 2-Chlorophenol             | 5.622 | 128 | 478830  | 44.34 | ng | 95     |
| 9) Benzaldehyde               | 5.346 | 77  | 240331  | 29.28 | ng | 99     |
| 10) Phenol                    | 5.481 | 94  | 649790  | 46.98 | ng | 99     |
| 11) bis(2-Chloroethyl)ether   | 5.563 | 93  | 444454  | 41.12 | ng | 98     |
| 12) 1,3-Dichlorobenzene       | 5.787 | 146 | 490115  | 40.46 | ng | 99     |
| 13) 1,4-Dichlorobenzene       | 5.875 | 146 | 502324  | 40.94 | ng | 98     |
| 14) 1,2-Dichlorobenzene       | 6.051 | 146 | 471603  | 41.74 | ng | 96     |
| 15) Benzyl Alcohol            | 6.022 | 79  | 393388  | 44.22 | ng | 98     |
| 16) 2,2'-oxybis(1-Chloropr... | 6.187 | 45  | 625753  | 37.57 | ng | 96     |
| 17) 2-Methylphenol            | 6.169 | 107 | 400216  | 43.27 | ng | 97     |
| 18) Hexachloroethane          | 6.440 | 117 | 173373  | 40.20 | ng | # 83   |
| 19) n-Nitroso-di-n-propyla... | 6.340 | 70  | 331874  | 42.48 | ng | 98     |
| 20) 3+4-Methylphenols         | 6.346 | 107 | 515969  | 46.06 | ng | # 63   |
| 22) Acetophenone              | 6.328 | 105 | 670533  | 43.09 | ng | # 86   |
| 24) Nitrobenzene              | 6.528 | 77  | 492652  | 40.83 | ng | 93     |
| 25) Isophorone                | 6.816 | 82  | 884280  | 41.13 | ng | 96     |
| 26) 2-Nitrophenol             | 6.904 | 139 | 270886  | 47.07 | ng | 97     |
| 27) 2,4-Dimethylphenol        | 6.969 | 122 | 438015  | 44.18 | ng | 96     |
| 28) bis(2-Chloroethoxy)met... | 7.081 | 93  | 578197  | 40.78 | ng | 100    |
| 29) 2,4-Dichlorophenol        | 7.198 | 162 | 409948  | 44.22 | ng | 99     |
| 30) 1,2,4-Trichlorobenzene    | 7.293 | 180 | 391995  | 41.05 | ng | 99     |
| 31) Naphthalene               | 7.381 | 128 | 1341763 | 39.97 | ng | 99     |
| 32) Benzoic acid              | 7.116 | 122 | 158172  | 23.96 | ng | 89     |
| 33) 4-Chloroaniline           | 7.451 | 127 | 139635  | 10.26 | ng | # 93   |
| 34) Hexachlorobutadiene       | 7.540 | 225 | 193653  | 39.55 | ng | 99     |
| 35) Caprolactam               | 7.892 | 113 | 72377   | 24.48 | ng | 98     |
| 36) 4-Chloro-3-methylphenol   | 8.075 | 107 | 439296  | 45.35 | ng | 91     |
| 37) 2-Methylnaphthalene       | 8.228 | 142 | 937022  | 41.87 | ng | 99     |
| 39) 1,2,4,5-Tetrachloroben... | 8.434 | 216 | 345520  | 39.57 | ng | 99     |
| 40) Hexachlorocyclopentadiene | 8.422 | 237 | 246099  | 60.24 | ng | 99     |

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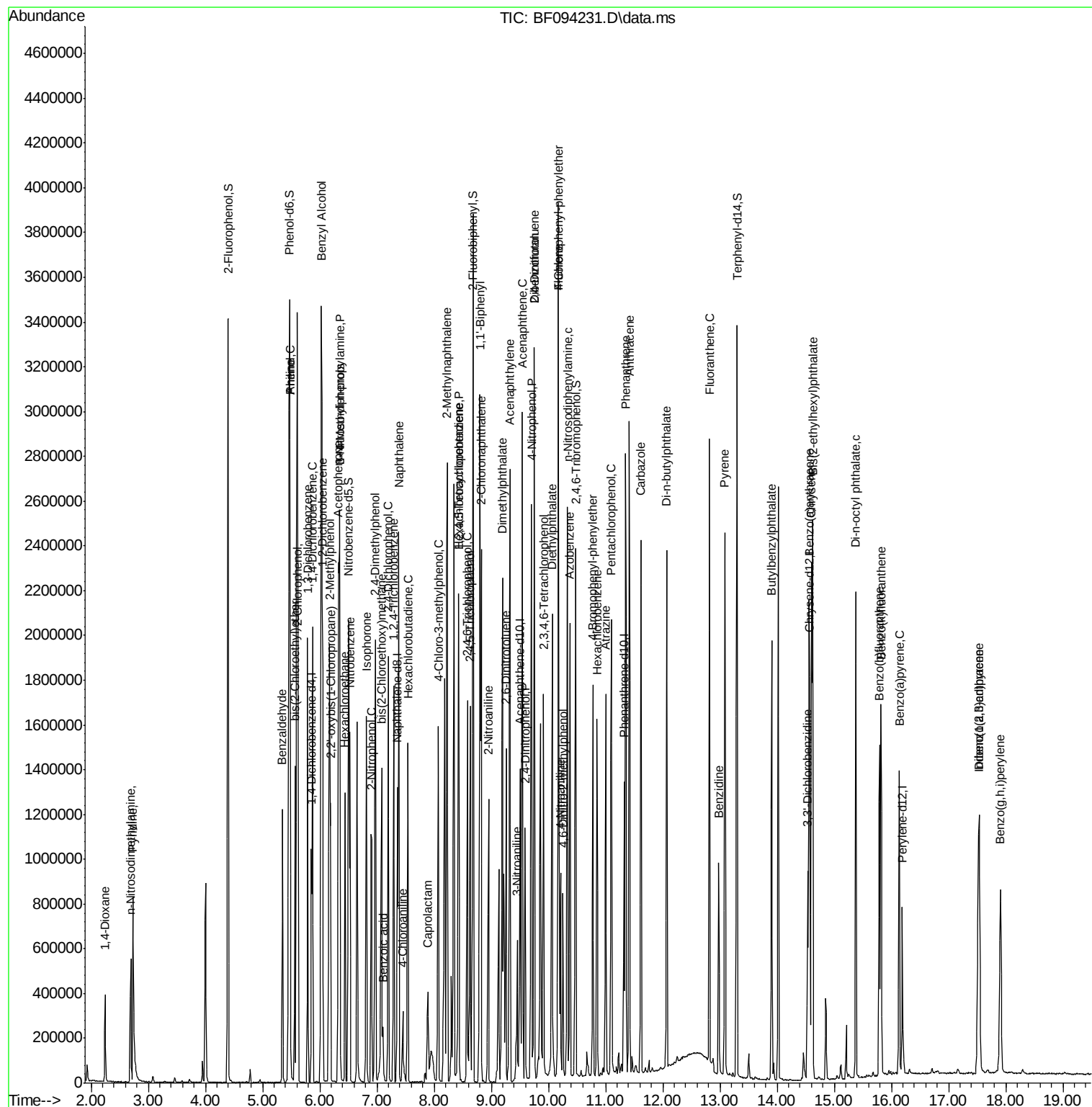
| Internal Standards            | R.T.   | QIon | Response | Conc  | Units | Dev(Min) |
|-------------------------------|--------|------|----------|-------|-------|----------|
| 42) 2,4,6-Trichlorophenol     | 8.581  | 196  | 275093   | 44.53 | nq    | 97       |
| 43) 2,4,5-Trichlorophenol     | 8.628  | 196  | 283525   | 42.42 | nq    | 96       |
| 45) 1,1'-Biphenyl             | 8.798  | 154  | 1037436  | 40.30 | nq    | 97       |
| 46) 2-Chloronaphthalene       | 8.822  | 162  | 825053   | 40.94 | nq    | 95       |
| 47) 2-Nitroaniline            | 8.945  | 65   | 256735   | 42.95 | nq    | 87       |
| 48) Acenaphthylene            | 9.328  | 152  | 1294093  | 38.64 | nq    | 99       |
| 49) Dimethylphthalate         | 9.192  | 163  | 1188363  | 52.38 | nq    | 100      |
| 50) 2,6-Dinitrotoluene        | 9.257  | 165  | 224455   | 43.16 | nq    | 90       |
| 51) Acenaphthene              | 9.539  | 154  | 768852   | 39.34 | nq    | 100      |
| 52) 3-Nitroaniline            | 9.451  | 138  | 114631   | 18.77 | nq    | 94       |
| 53) 2,4-Dinitrophenol         | 9.592  | 184  | 167938   | 61.49 | nq    | # 68     |
| 54) Dibenzofuran              | 9.757  | 168  | 1095629  | 41.19 | nq    | 99       |
| 55) 4-Nitrophenol             | 9.704  | 139  | 354233   | 74.07 | nq    | # 71     |
| 56) 2,4-Dinitrotoluene        | 9.751  | 165  | 265133   | 40.58 | nq    | # 63     |
| 57) Fluorene                  | 10.175 | 166  | 847609   | 38.42 | nq    | 98       |
| 58) 2,3,4,6-Tetrachlorophenol | 9.910  | 232  | 210754   | 45.95 | nq    | 98       |
| 59) Diethylphthalate          | 10.063 | 149  | 936635   | 41.77 | nq    | 99       |
| 60) 4-Chlorophenyl-phenyle... | 10.181 | 204  | 363032   | 38.63 | nq    | 93       |
| 61) 4-Nitroaniline            | 10.216 | 138  | 227946   | 38.90 | nq    | 98       |
| 62) Azobenzene                | 10.375 | 77   | 908798   | 42.85 | nq    | 97       |
| 64) 4,6-Dinitro-2-methylph... | 10.257 | 198  | 129854   | 38.83 | nq    | # 67     |
| 65) n-Nitrosodiphenylamine    | 10.333 | 169  | 786011   | 41.62 | nq    | 98       |
| 66) 4-Bromophenyl-phenylether | 10.781 | 248  | 220980   | 41.15 | nq    | 99       |
| 67) Hexachlorobenzene         | 10.851 | 284  | 226189   | 41.60 | nq    | # 89     |
| 68) Atrazine                  | 11.004 | 200  | 232684   | 41.14 | nq    | 96       |
| 69) Pentachlorophenol         | 11.098 | 266  | 248566   | 73.46 | nq    | 96       |
| 70) Phenanthrene              | 11.351 | 178  | 1205258  | 39.68 | nq    | 99       |
| 71) Anthracene                | 11.416 | 178  | 1244298  | 39.78 | nq    | 100      |
| 72) Carbazole                 | 11.616 | 167  | 1197531  | 37.34 | nq    | 99       |
| 73) Di-n-butylphthalate       | 12.069 | 149  | 1425698  | 42.74 | nq    | 99       |
| 74) Fluoranthene              | 12.816 | 202  | 1189251  | 38.23 | nq    | 98       |
| 76) Benzidine                 | 12.980 | 184  | 369060   | 24.53 | nq    | # 93     |
| 77) Pyrene                    | 13.086 | 202  | 1201601  | 43.55 | nq    | 99       |
| 79) Butylbenzylphthalate      | 13.910 | 149  | 582095   | 49.52 | nq    | 91       |
| 80) Benzo(a)anthracene        | 14.563 | 228  | 904153   | 40.78 | nq    | 97       |
| 81) 3,3'-Dichlorobenzidine    | 14.533 | 252  | 194242   | 24.51 | nq    | # 96     |
| 82) Chrysene                  | 14.604 | 228  | 804836   | 39.12 | nq    | 100      |
| 83) Bis(2-ethylhexyl)phtha... | 14.621 | 149  | 801920   | 50.00 | nq    | 100      |
| 84) Di-n-octyl phthalate      | 15.374 | 149  | 1244304  | 46.44 | nq    | 98       |
| 85) Indeno(1,2,3-cd)pyrene    | 17.521 | 276  | 702029   | 39.40 | nq    | 99       |
| 87) Benzo(b)fluoranthene      | 15.792 | 252  | 679007   | 40.42 | nq    | 98       |
| 88) Benzo(k)fluoranthene      | 15.821 | 252  | 677212   | 41.21 | nq    | 96       |
| 89) Benzo(a)pyrene            | 16.139 | 252  | 631537   | 40.83 | nq    | 99       |
| 90) Dibenzo(a,h)anthracene    | 17.539 | 278  | 577760   | 44.10 | nq    | 97       |
| 91) Benzo(g,h,i)perylene      | 17.909 | 276  | 606865   | 45.97 | nq    | 97       |

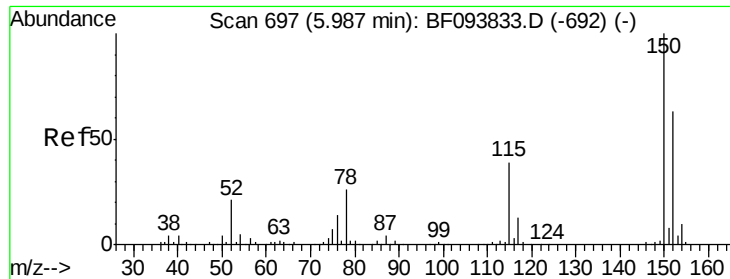
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

1,4-Dichlorobenzene-d4

Concen: 20.00 ng

RT: 5.851 min Scan# 67

Delta R.T. -0.053 min

Lab File: BF094231.D

Acq: 6 Apr 2017 16:35

Instrument :

BNA\_F

ClientSampleId :

B4-(0-5)MSD

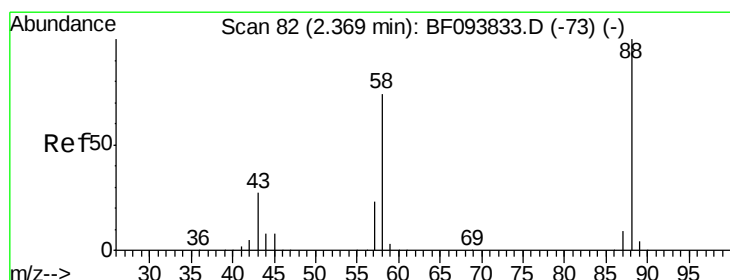
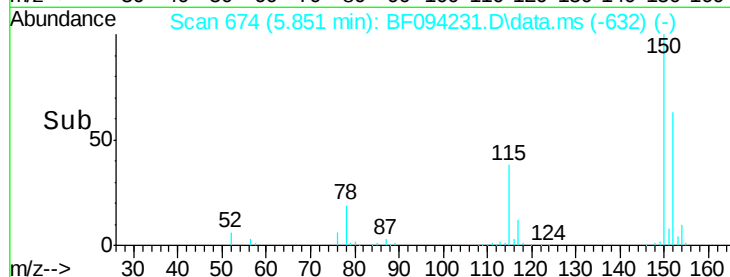
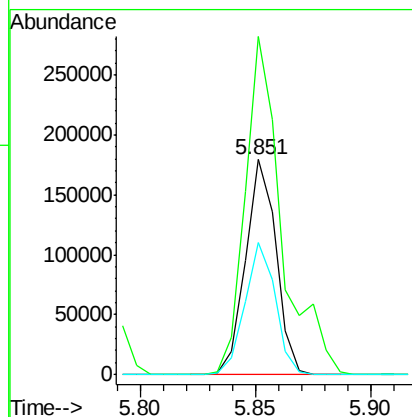
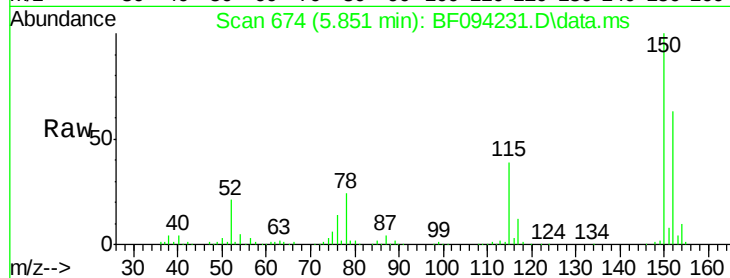
Tot Ion:152 Resp: 165951

Ion Ratio Lower Upper

152 100

150 157.5 126.2 189.2

115 61.3 52.2 78.2



#2

1,4-Dioxane

Concen: 34.13 ng

RT: 2.240 min Scan# 60

Delta R.T. -0.012 min

Lab File: BF094231.D

Acq: 6 Apr 2017 16:35

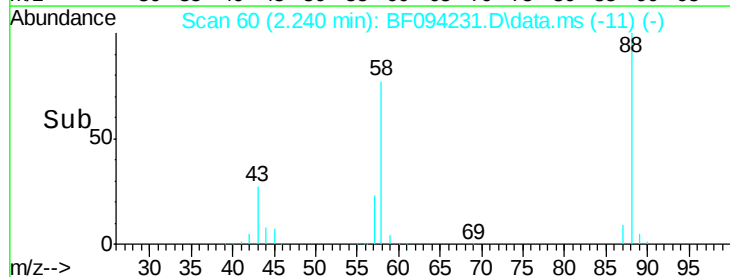
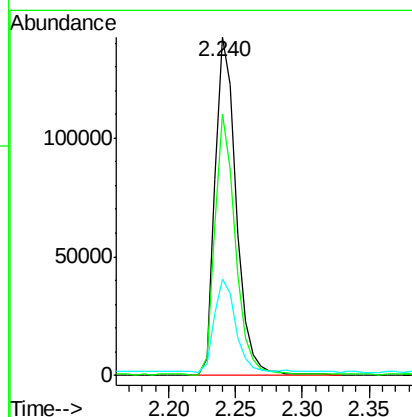
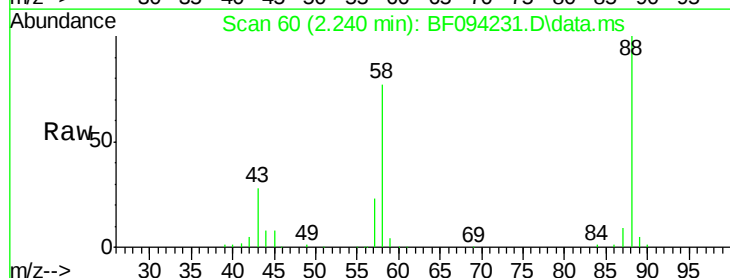
Tgt Ion: 88 Resp: 161112

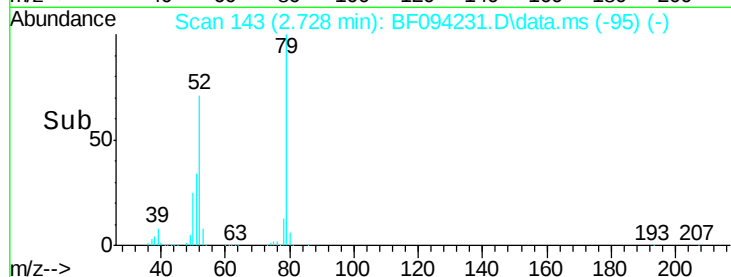
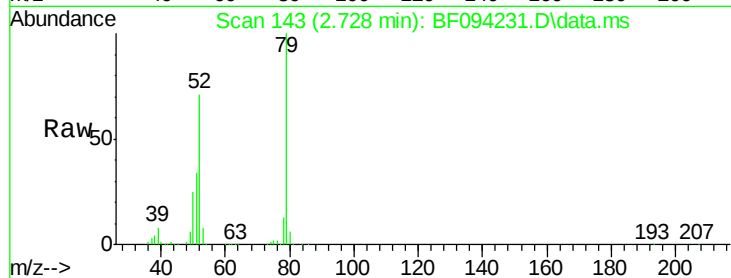
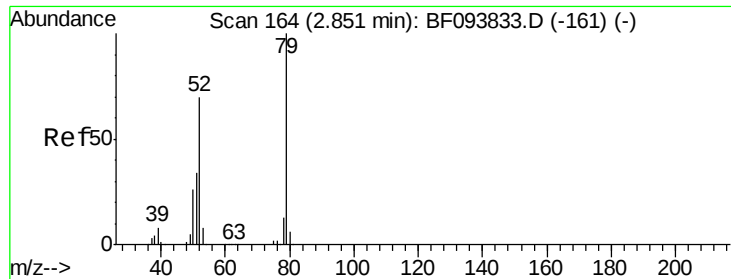
Ion Ratio Lower Upper

88 100

58 74.6 61.4 92.0

43 27.1 23.4 35.0

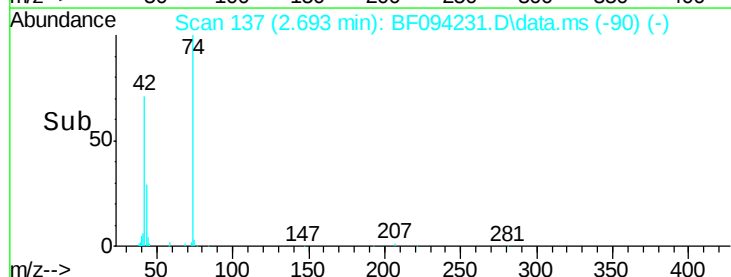
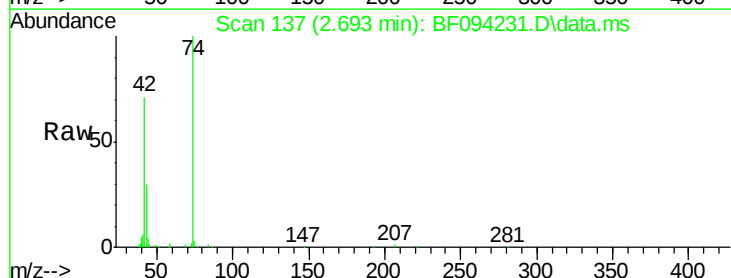
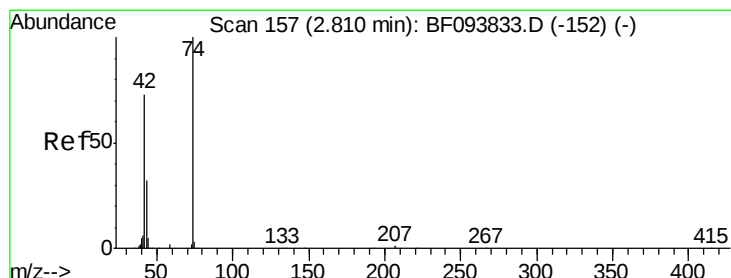
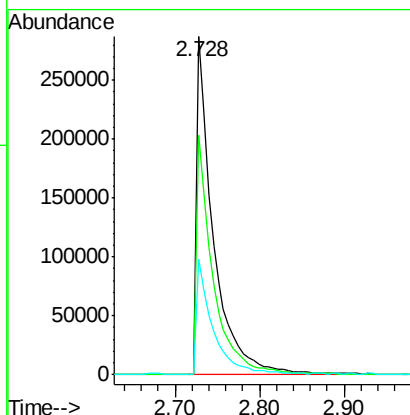




#3  
 Pvridine  
 Concen: 30.23 ng  
 RT: 2.728 min Scan# 14  
 Delta R.T. -0.018 min  
 Lab File: BF094231.D  
 Acq: 6 Apr 2017 16:35

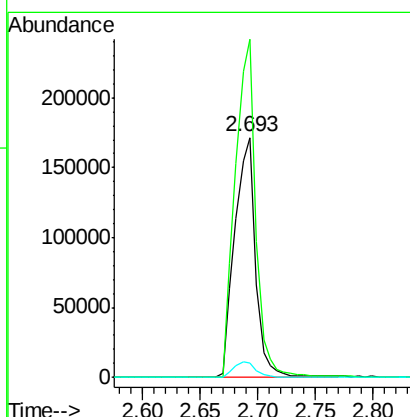
Instrument :  
 BNA\_F  
 ClientSampleId :  
 B4-(0-5)MSD

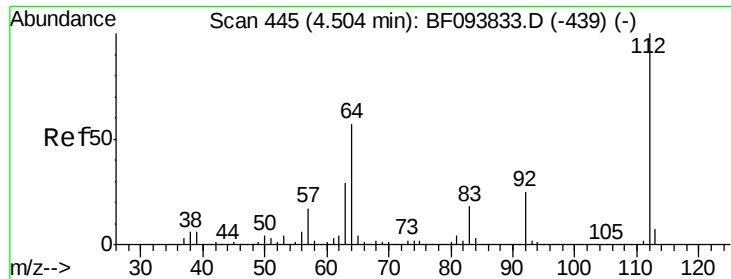
| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 79      | 100   |       |       |
| 52      | 70.9  | 54.8  | 82.2  |
| 51      | 34.1  | 27.0  | 40.4  |



#4  
 n-Nitrosodimethylamine  
 Concen: 40.93 ng  
 RT: 2.693 min Scan# 137  
 Delta R.T. -0.024 min  
 Lab File: BF094231.D  
 Acq: 6 Apr 2017 16:35

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 42      | 100   |       |       |
| 74      | 140.9 | 103.9 | 155.9 |
| 44      | 6.2   | 5.7   | 8.5   |





#5

2-Fluorophenol

Concen: 119.00 ng

RT: 4.399 min Scan# 42

Delta R.T. -0.035 min

Lab File: BF094231.D

Acq: 6 Apr 2017 16:35

Instrument :

BNA\_F

ClientSampleId :

B4-(0-5)MSD

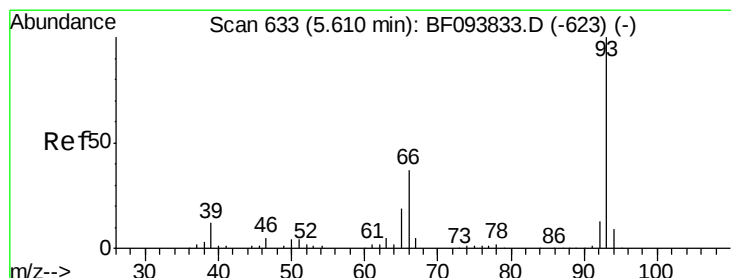
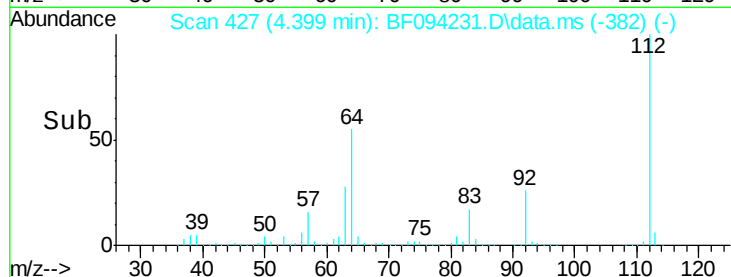
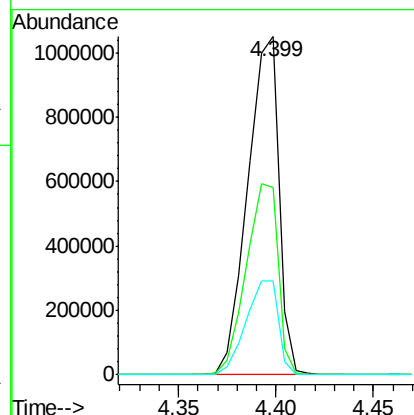
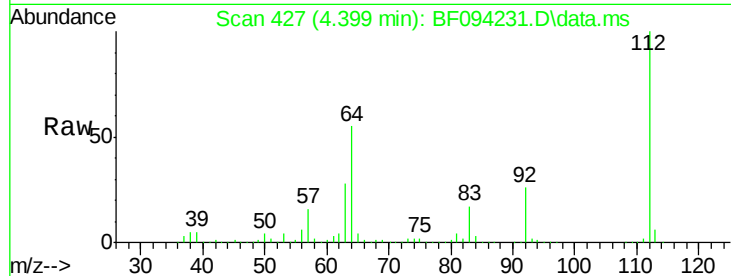
Tot Ion:112 Resp: 1169210

Ion Ratio Lower Upper

112 100

64 55.3 46.0 69.0

63 27.6 23.4 35.0



#6

Aniline

Concen: 17.36 ng

RT: 5.481 min Scan# 611

Delta R.T. -0.047 min

Lab File: BF094231.D

Acq: 6 Apr 2017 16:35

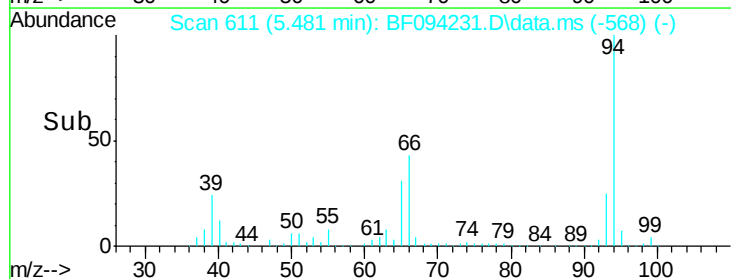
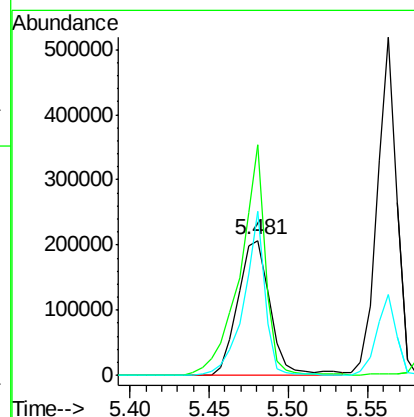
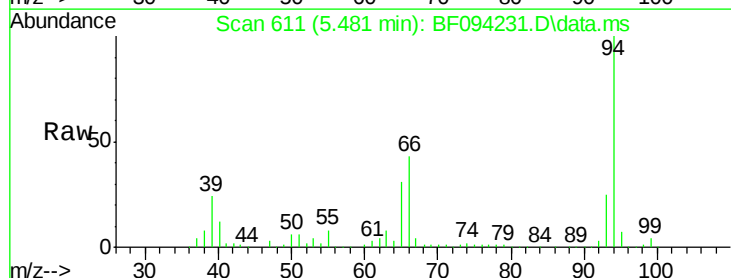
Tgt Ion: 93 Resp: 293567

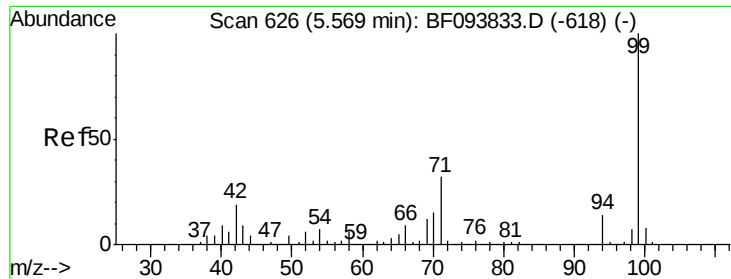
Ion Ratio Lower Upper

93 100

66 170.8 32.9 49.3#

65 121.9 16.0 24.0#





#7

Phenol-d6

Concen: 124.43 ng

RT: 5.469 min Scan# 60

Delta R.T. -0.041 min

Lab File: BF094231.D

Acq: 6 Apr 2017 16:35

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BNA\_F

ClientSampleId :

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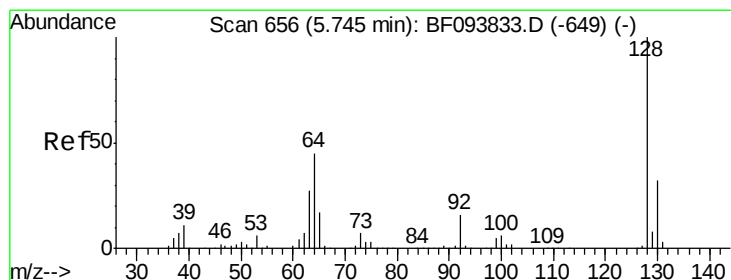
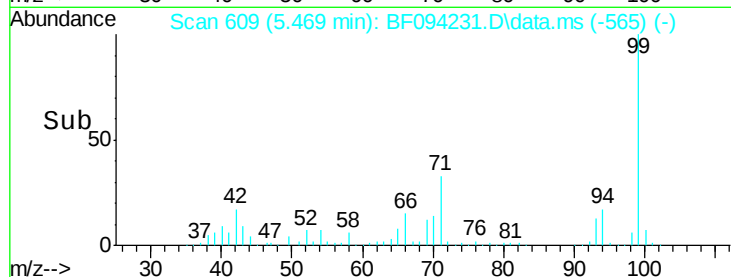
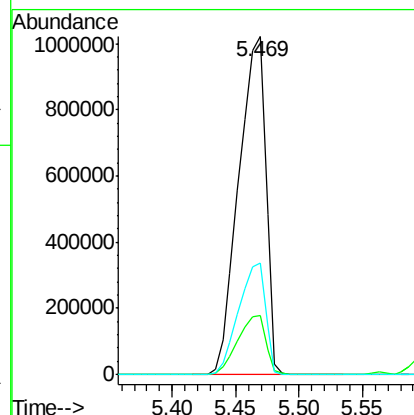
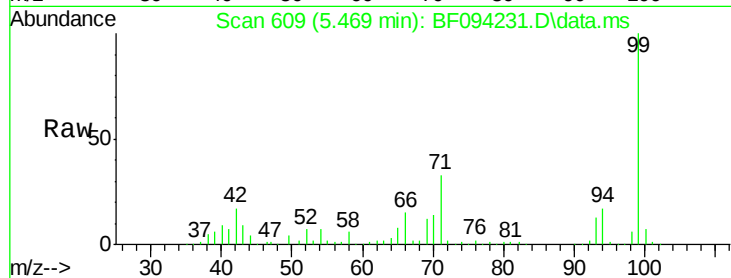
Tot Ion: 99 Resp: 1512374

Ion Ratio Lower Upper

99 100

42 17.4 13.5 20.3

71 33.1 24.5 36.7



#8

2-Chlorophenol

Concen: 44.34 ng

RT: 5.622 min Scan# 635

Delta R.T. -0.047 min

Lab File: BF094231.D

Acq: 6 Apr 2017 16:35

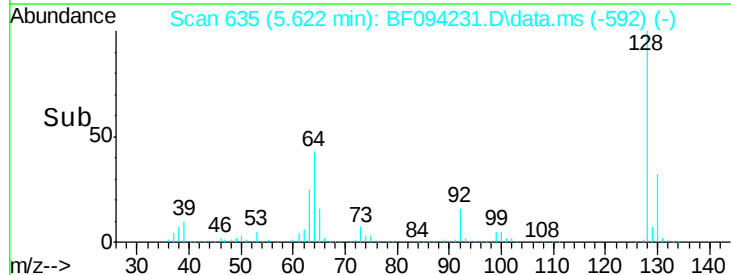
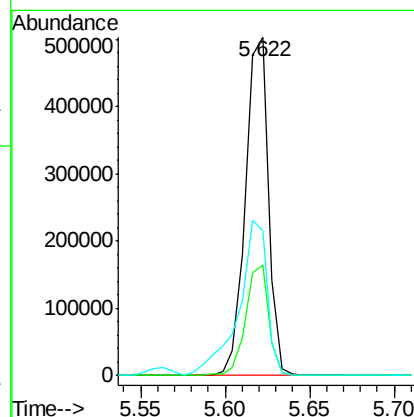
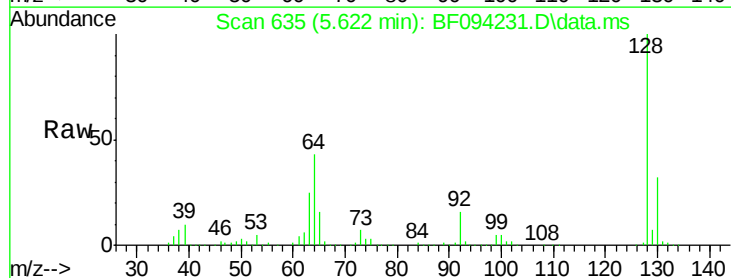
Tgt Ion: 128 Resp: 478830

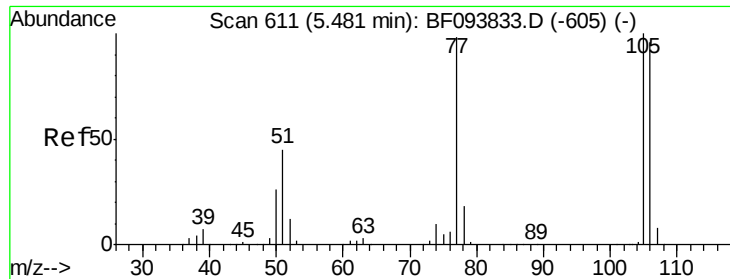
Ion Ratio Lower Upper

128 100

130 32.5 12.9 52.9

64 42.7 28.4 68.4





#9

Benzaldehyde

Concen: 29.28 ng

RT: 5.346 min Scan# 58

Delta R.T. -0.053 min

Lab File: BF094231.D

Acq: 6 Apr 2017 16:35

Instrument :

BNA\_F

ClientSampleId :

B4-(0-5)MSD

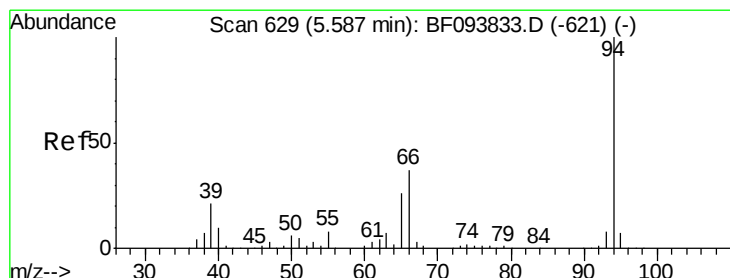
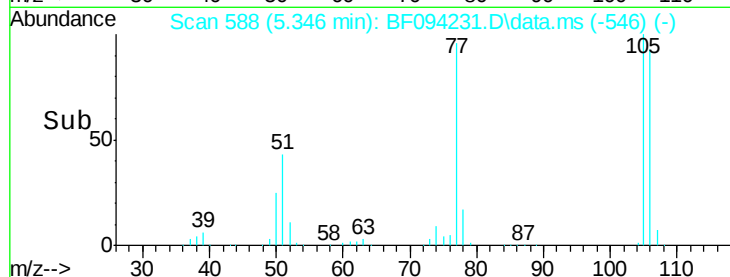
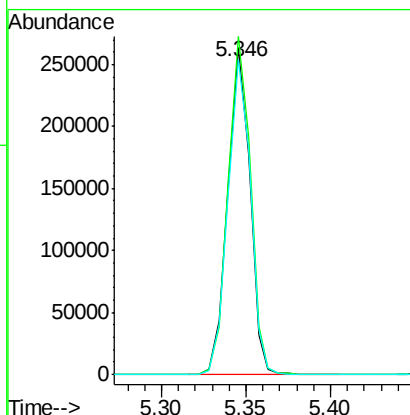
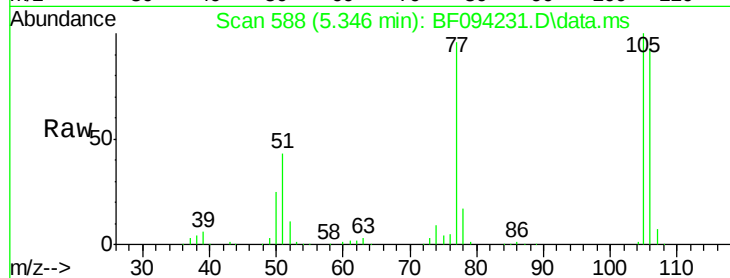
Tot Ion: 77 Resp: 240331

Ion Ratio Lower Upper

77 100

105 103.7 83.8 123.8

106 96.6 79.1 119.1



#10

Phenol

Concen: 46.98 ng

RT: 5.481 min Scan# 611

Delta R.T. -0.047 min

Lab File: BF094231.D

Acq: 6 Apr 2017 16:35

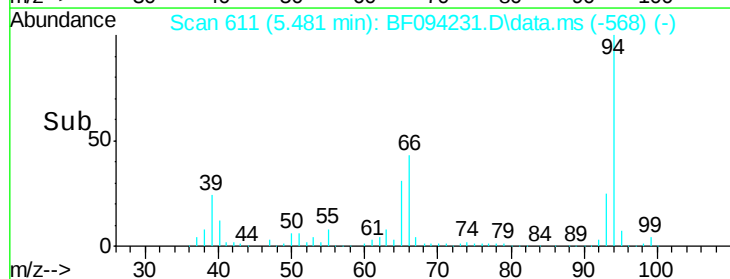
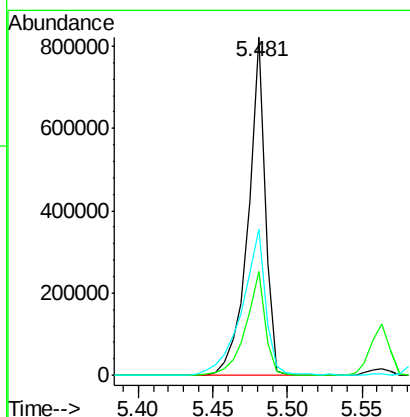
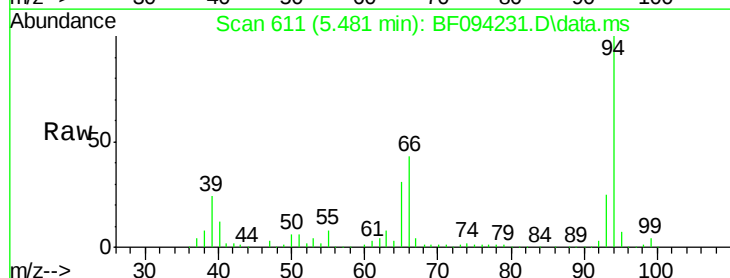
Tgt Ion: 94 Resp: 649790

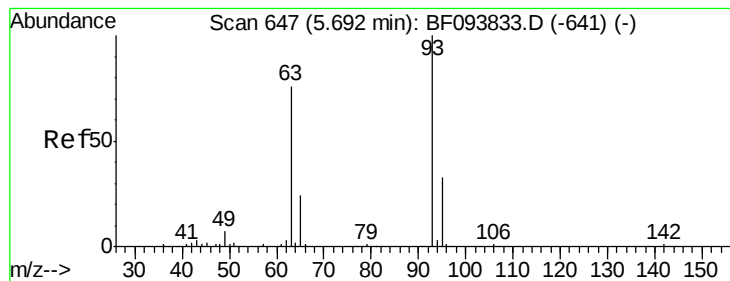
Ion Ratio Lower Upper

94 100

65 30.7 9.9 49.9

66 43.0 23.1 63.1





#11

bis(2-Chloroethyl)ether

Concen: 41.12 ng

RT: 5.563 min Scan# 62

Delta R.T. -0.047 min

Lab File: BF094231.D

Acq: 6 Apr 2017 16:35

Instrument :

BNA\_F

ClientSampleId :

B4-(0-5)MSD

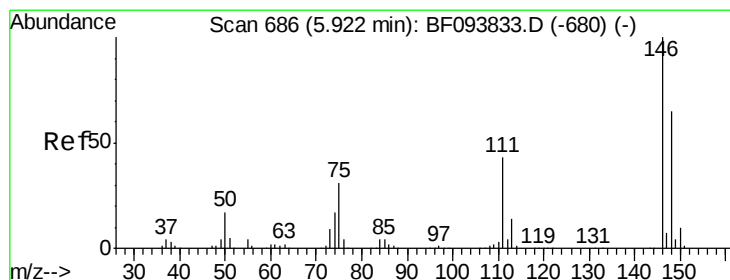
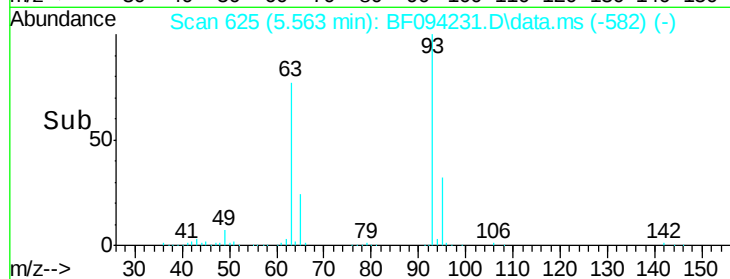
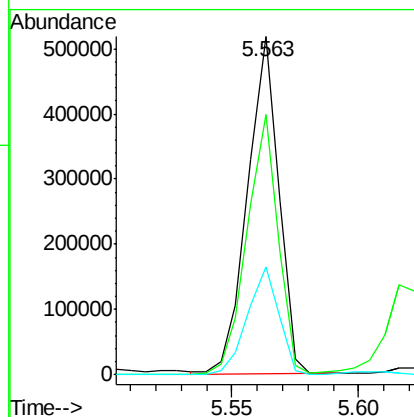
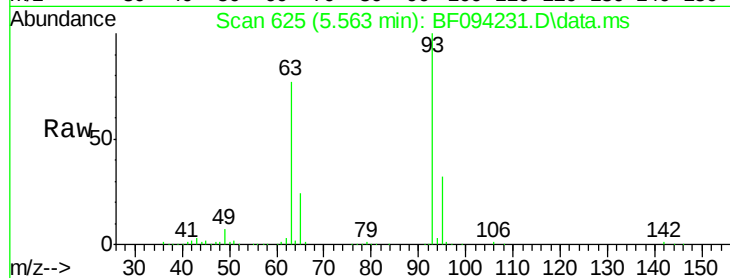
Tot Ion: 93 Resp: 444454

Ion Ratio Lower Upper

93 100

63 76.8 59.2 99.2

95 31.9 12.8 52.8



#12

1,3-Dichlorobenzene

Concen: 40.46 ng

RT: 5.787 min Scan# 663

Delta R.T. -0.053 min

Lab File: BF094231.D

Acq: 6 Apr 2017 16:35

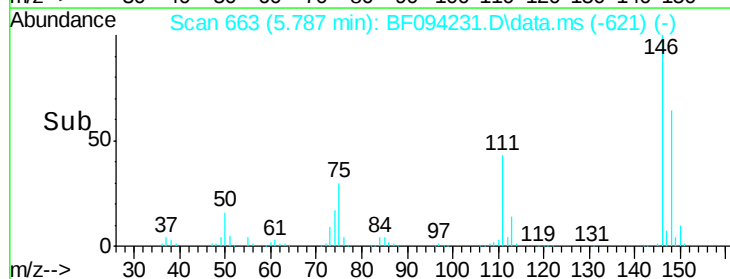
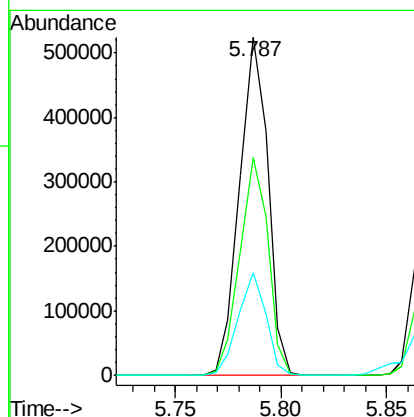
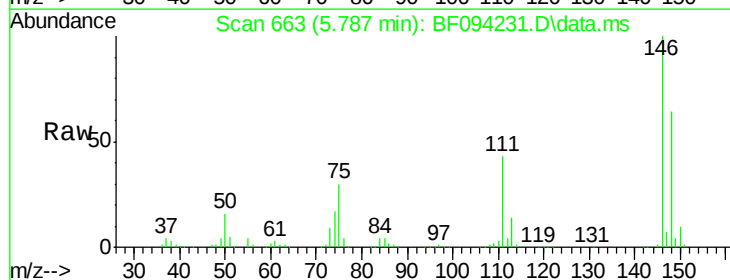
Tgt Ion: 146 Resp: 490115

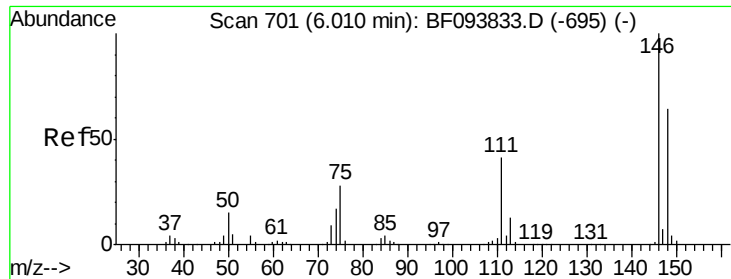
Ion Ratio Lower Upper

146 100

148 64.2 51.8 77.6

75 30.2 23.1 34.7

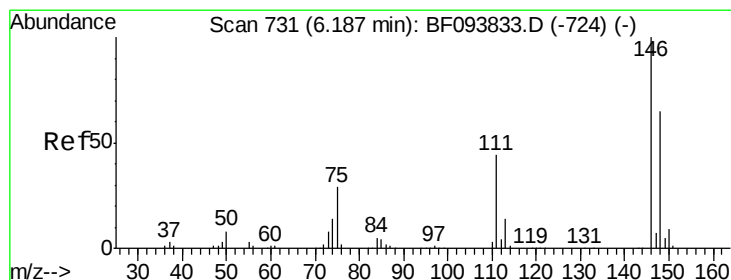
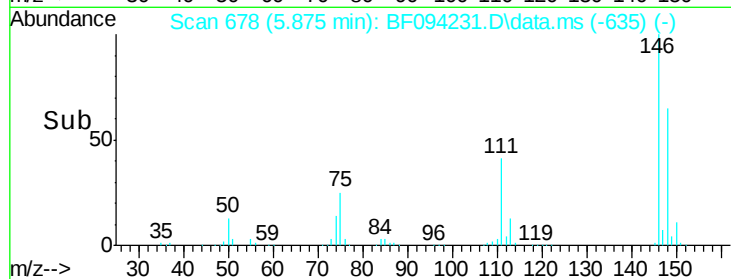
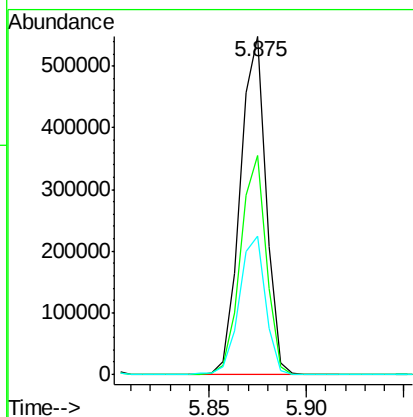
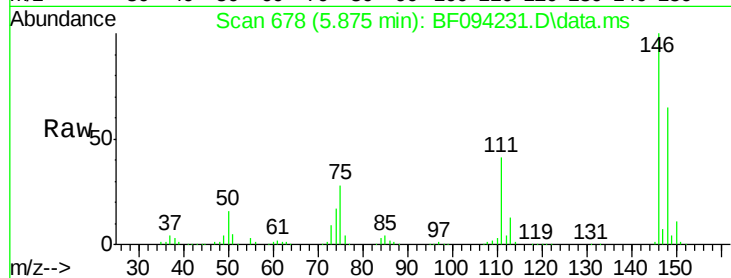




#13  
 1,4-Dichlorobenzene  
 Concen: 40.94 ng  
 RT: 5.875 min Scan# 67  
 Delta R.T. -0.047 min  
 Lab File: BF094231.D  
 Acq: 6 Apr 2017 16:35

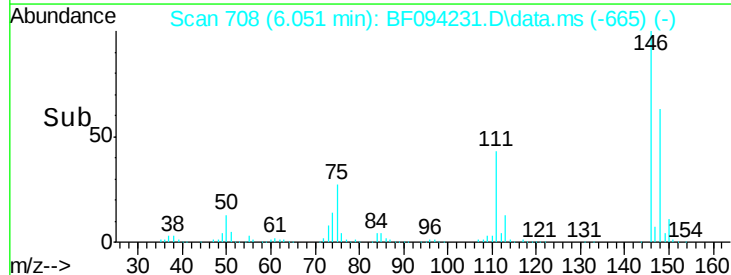
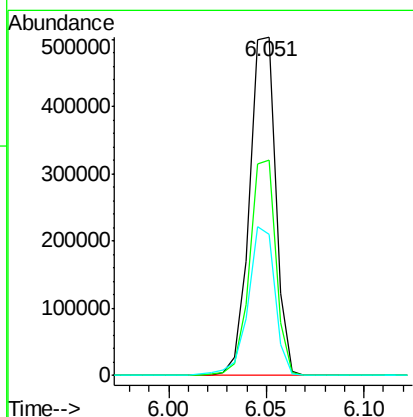
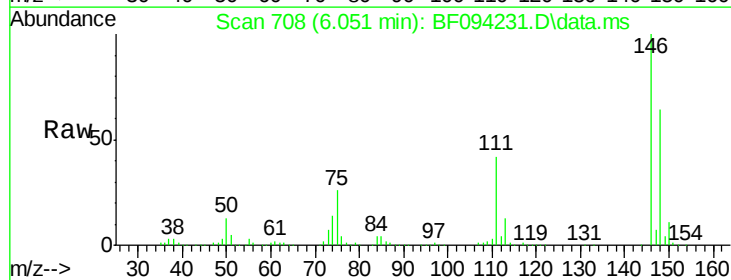
Instrument :  
 BNA\_F  
 ClientSampleId :  
 B4-(0-5)MSD

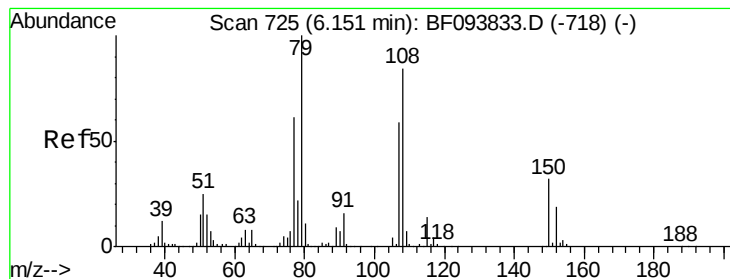
Tot Ion:146 Resp: 502324  
 Ion Ratio Lower Upper  
 146 100  
 148 64.7 52.2 78.2  
 111 40.9 30.3 45.5



#14  
 1,2-Dichlorobenzene  
 Concen: 41.74 ng  
 RT: 6.051 min Scan# 708  
 Delta R.T. -0.047 min  
 Lab File: BF094231.D  
 Acq: 6 Apr 2017 16:35

Tgt Ion:146 Resp: 471603  
 Ion Ratio Lower Upper  
 146 100  
 148 63.5 50.4 75.6  
 111 41.6 38.2 57.4





#15

Benzyl Alcohol

Concen: 44.22 ng

RT: 6.022 min Scan# 70

Delta R.T. -0.053 min

Lab File: BF094231.D

Acq: 6 Apr 2017 16:35

Instrument :

BNA\_F

ClientSampleId :

B4-(0-5)MSD

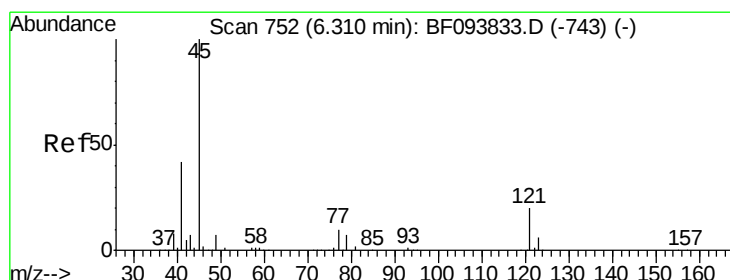
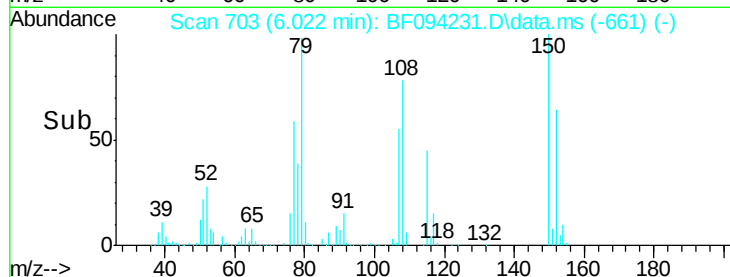
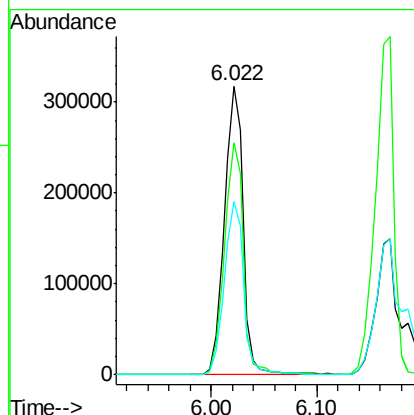
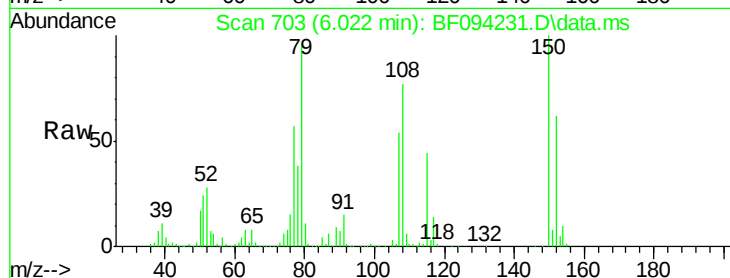
Tot Ion: 79 Resp: 393388

Ion Ratio Lower Upper

79 100

108 80.2 63.4 95.0

77 59.9 49.2 73.8



#16

2,2'-oxybis(1-Chloropropane)

Concen: 37.57 ng

RT: 6.187 min Scan# 731

Delta R.T. -0.041 min

Lab File: BF094231.D

Acq: 6 Apr 2017 16:35

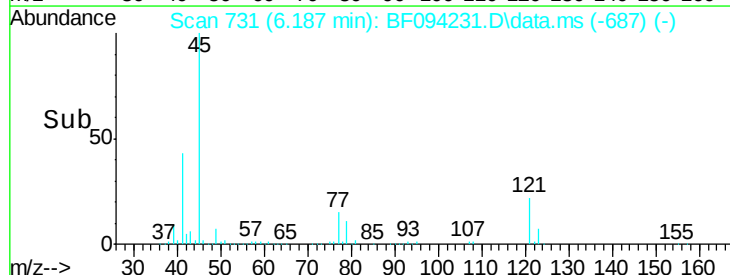
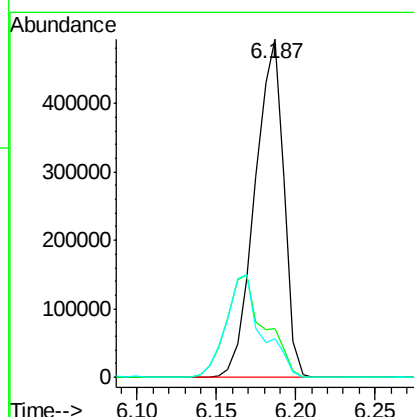
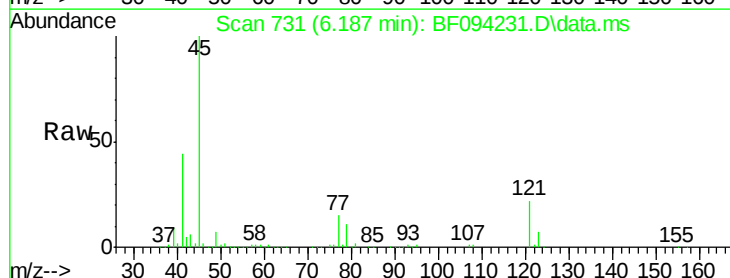
Tgt Ion: 45 Resp: 625753

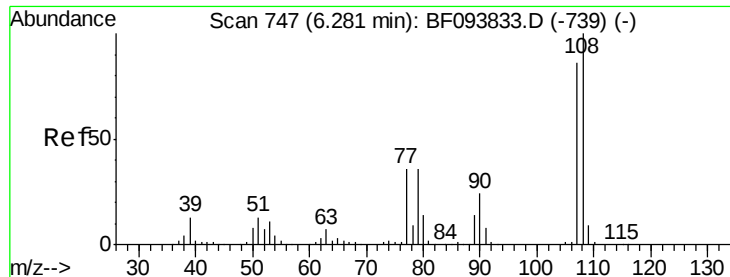
Ion Ratio Lower Upper

45 100

77 14.6 0.0 33.2

79 11.4 0.0 30.0

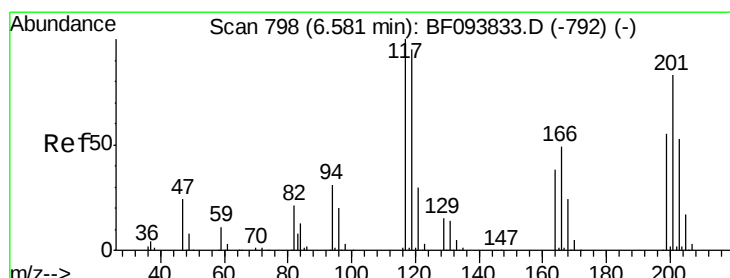
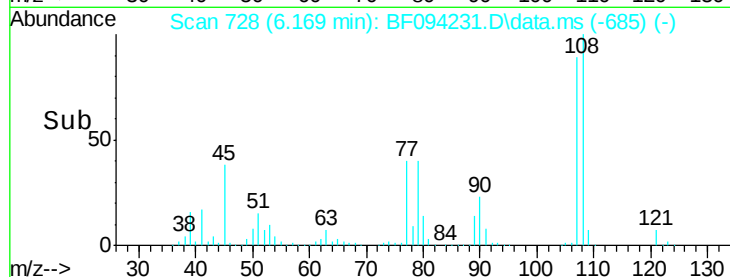
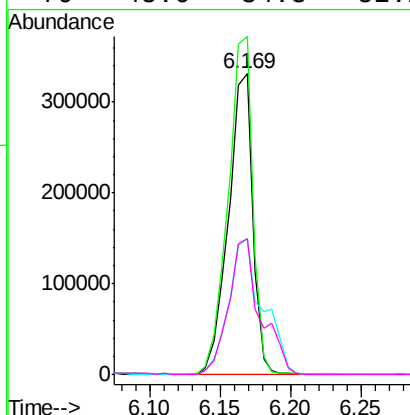
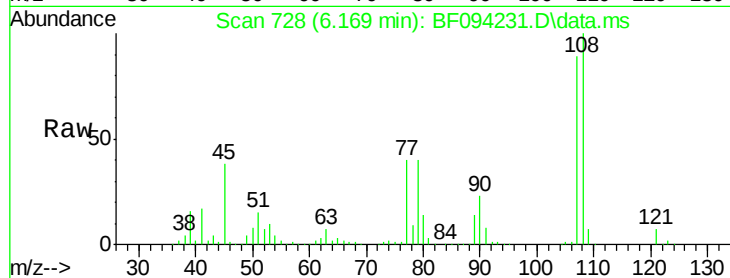




#17  
2-Methylphenol  
Concen: 43.27 ng  
RT: 6.169 min Scan# 72  
Delta R.T. -0.047 min  
Lab File: BF094231.D  
Acq: 6 Apr 2017 16:35

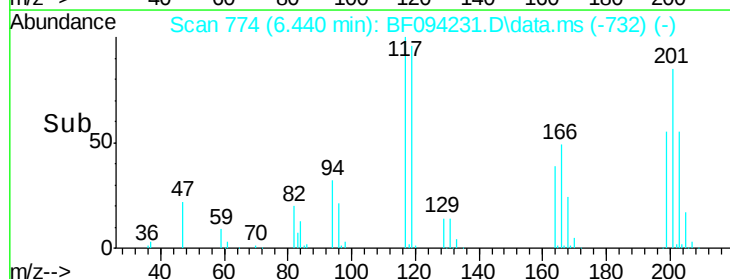
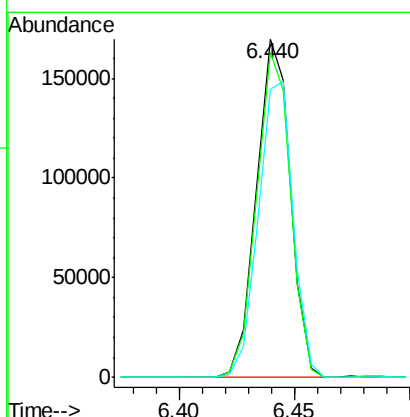
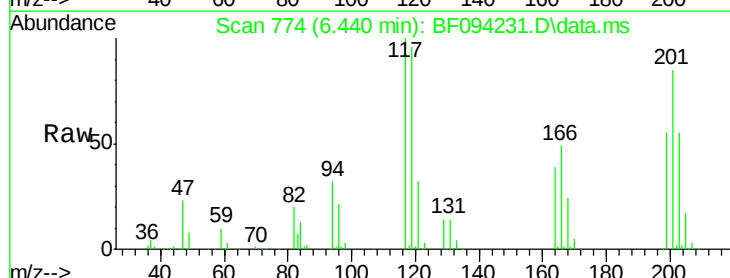
Instrument :  
BNA\_F  
ClientSampleId :  
B4-(0-5)MSD

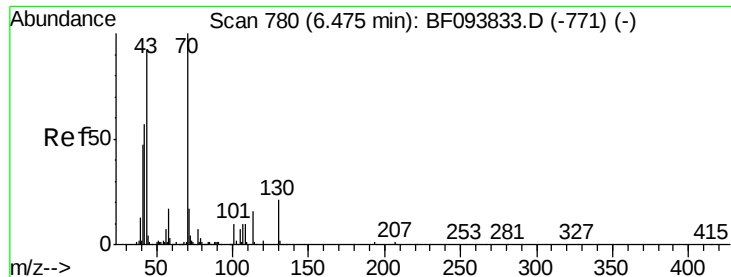
|          |       |       |        |
|----------|-------|-------|--------|
| Tot Ion: | 107   | Resp: | 400216 |
| Ion      | Ratio | Lower | Upper  |
| 107      | 100   |       |        |
| 108      | 112.5 | 93.4  | 140.0  |
| 77       | 45.0  | 35.8  | 53.6   |
| 79       | 45.0  | 34.8  | 52.2   |



#18  
Hexachloroethane  
Concen: 40.20 ng  
RT: 6.440 min Scan# 774  
Delta R.T. -0.053 min  
Lab File: BF094231.D  
Acq: 6 Apr 2017 16:35

|          |       |       |        |
|----------|-------|-------|--------|
| Tgt Ion: | 117   | Resp: | 173373 |
| Ion      | Ratio | Lower | Upper  |
| 117      | 100   |       |        |
| 119      | 96.3  | 77.4  | 116.0  |
| 201      | 85.1  | 94.6  | 141.8# |

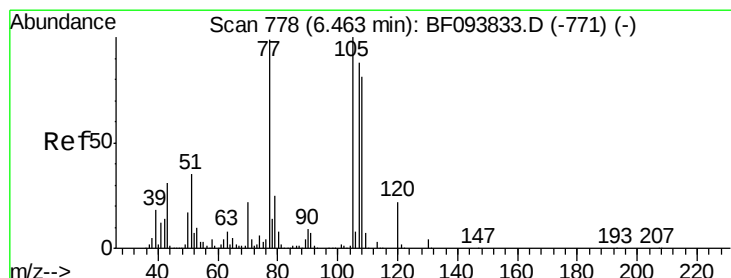
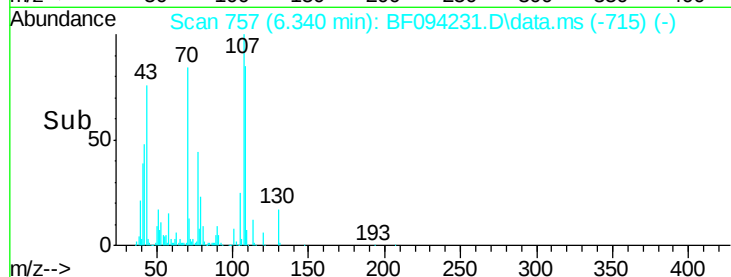
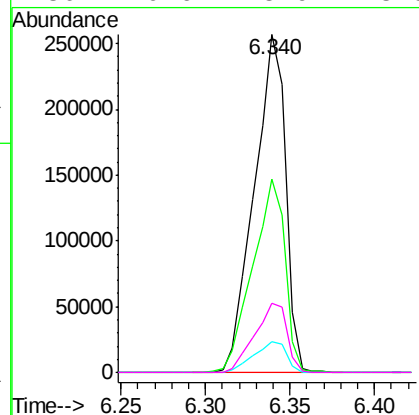
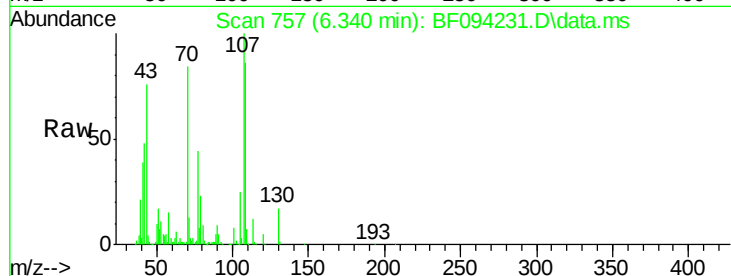




#19  
n-Nitroso-di-n-propylamine  
Concen: 42.48 ng  
RT: 6.340 min Scan# 75  
Delta R.T. -0.053 min  
Lab File: BF094231.D  
Acq: 6 Apr 2017 16:35

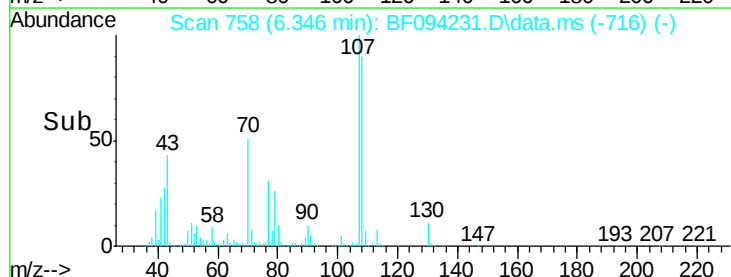
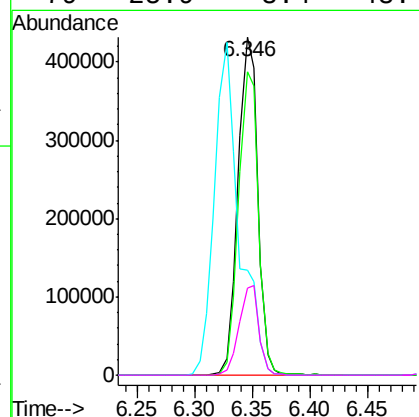
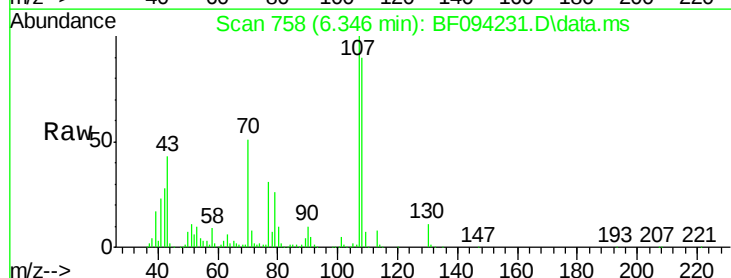
Instrument :  
BNA\_F  
ClientSampleId :  
B4-(0-5)MSD

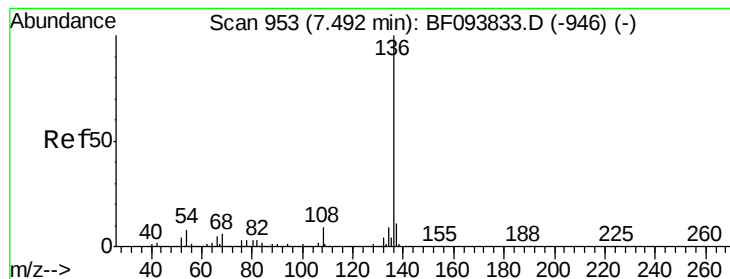
|          |       |       |        |
|----------|-------|-------|--------|
| Tot Ion: | 70    | Resp: | 331874 |
| Ion      | Ratio | Lower | Upper  |
| 70       | 100   |       |        |
| 42       | 57.2  | 47.2  | 70.8   |
| 101      | 9.0   | 7.2   | 10.8   |
| 130      | 20.6  | 15.9  | 23.9   |



#20  
3+4-Methylphenols  
Concen: 46.06 ng  
RT: 6.346 min Scan# 758  
Delta R.T. -0.053 min  
Lab File: BF094231.D  
Acq: 6 Apr 2017 16:35

|          |       |       |        |
|----------|-------|-------|--------|
| Tgt Ion: | 107   | Resp: | 515969 |
| Ion      | Ratio | Lower | Upper  |
| 107      | 100   |       |        |
| 108      | 89.7  | 71.0  | 111.0  |
| 77       | 31.1  | 90.5  | 130.5# |
| 79       | 25.9  | 8.4   | 48.4   |





#21

Naphthalene-d8

Concen: 20.00 ng

RT: 7.357 min Scan# 93

Delta R.T. -0.053 min

Lab File: BF094231.D

Acq: 6 Apr 2017 16:35

Instrument :

BNA\_F

ClientSampleId :

B4-(0-5)MSD

Tot Ion:136 Resp: 698214

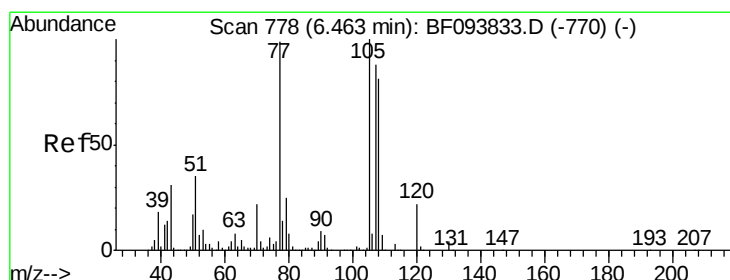
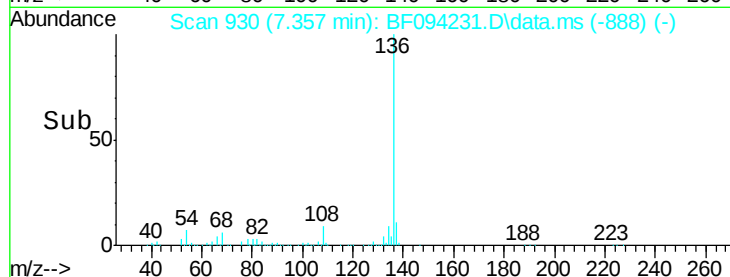
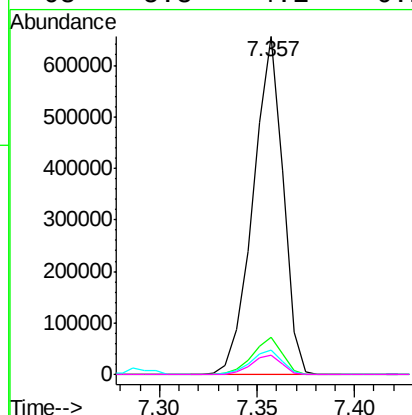
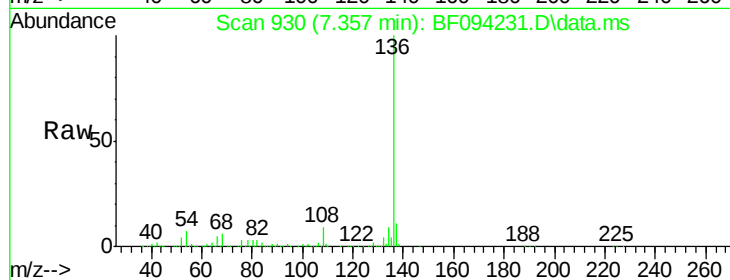
Ion Ratio Lower Upper

136 100

137 11.0 8.5 12.7

54 7.4 4.9 7.3#

68 5.8 4.1 6.1



#22

Acetophenone

Concen: 43.09 ng

RT: 6.328 min Scan# 755

Delta R.T. -0.053 min

Lab File: BF094231.D

Acq: 6 Apr 2017 16:35

Tgt Ion:105 Resp: 670533

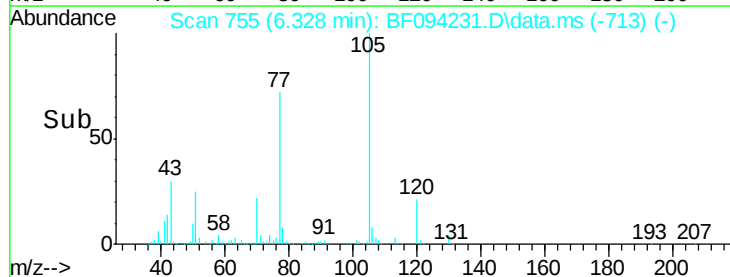
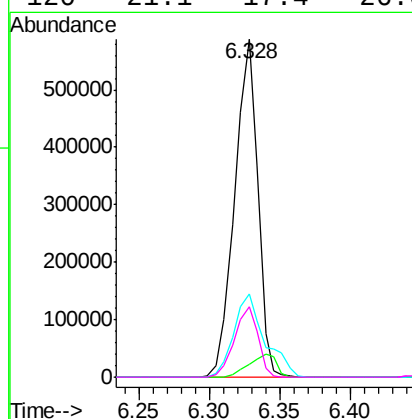
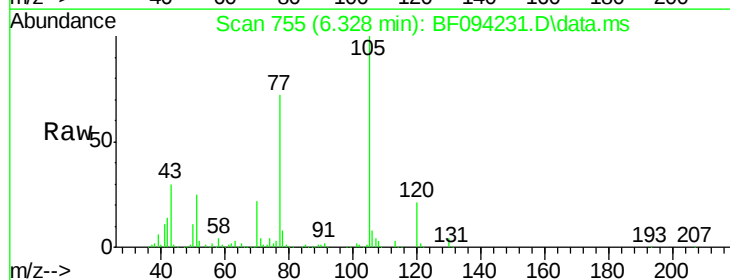
Ion Ratio Lower Upper

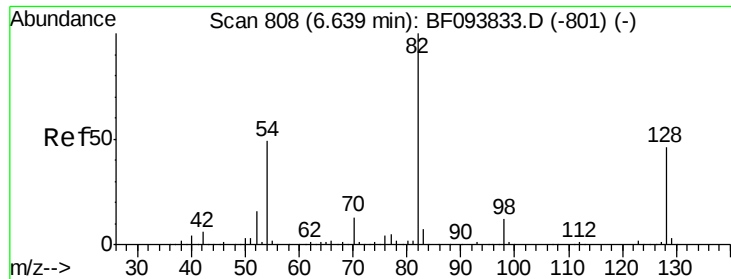
105 100

71 3.9 2.8 4.2

51 24.8 30.7 46.1#

120 21.1 17.4 26.0

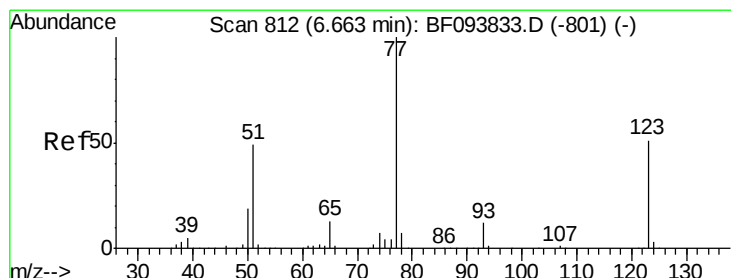
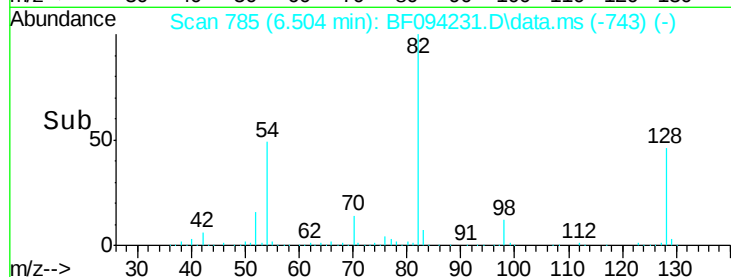
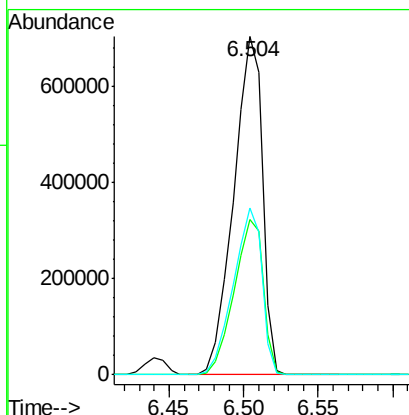
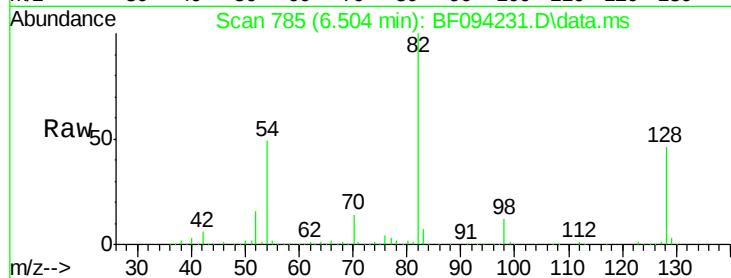




#23  
Nitrobenzene-d5  
Concen: 77.11 ng  
RT: 6.504 min Scan# 78  
Delta R.T. -0.053 min  
Lab File: BF094231.D  
Acq: 6 Apr 2017 16:35

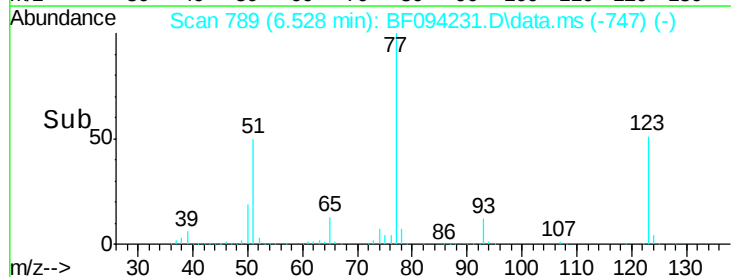
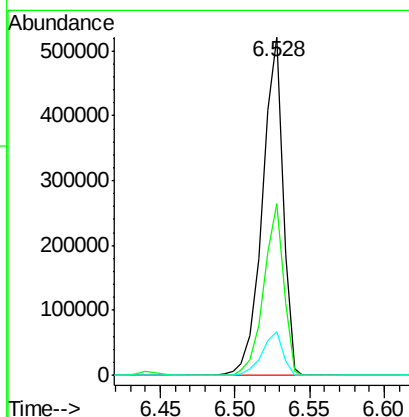
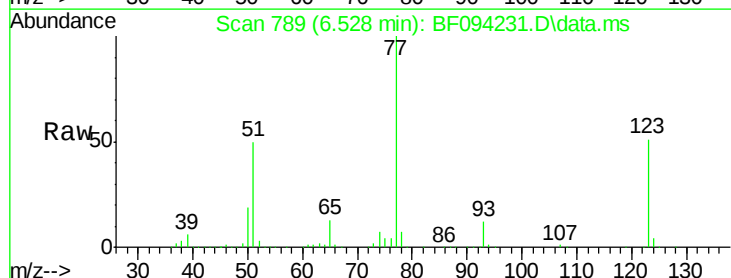
Instrument :  
BNA\_F  
ClientSampleId :  
B4-(0-5)MSD

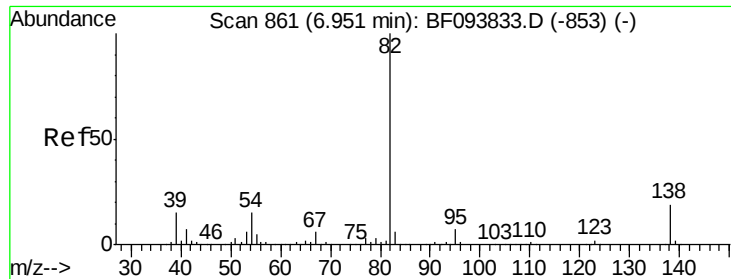
| Tot Ion   | 82   | Resp  | 943421 |
|-----------|------|-------|--------|
| Ion Ratio | 100  | Lower | Upper  |
| 128       | 46.0 | 34.0  | 51.0   |
| 54        | 49.2 | 42.2  | 63.2   |



#24  
Nitrobenzene  
Concen: 40.83 ng  
RT: 6.528 min Scan# 789  
Delta R.T. -0.053 min  
Lab File: BF094231.D  
Acq: 6 Apr 2017 16:35

| Tgt Ion   | 77   | Resp  | 492652 |
|-----------|------|-------|--------|
| Ion Ratio | 100  | Lower | Upper  |
| 123       | 50.8 | 35.8  | 53.8   |
| 65        | 12.9 | 10.6  | 15.8   |





#25

Isophorone

Concen: 41.13 ng

RT: 6.816 min Scan# 83

Delta R.T. -0.053 min

Lab File: BF094231.D

Acq: 6 Apr 2017 16:35

Instrument :

BNA\_F

ClientSampleId :

B4-(0-5)MSD

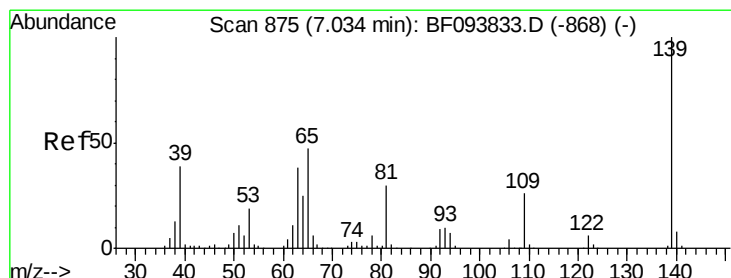
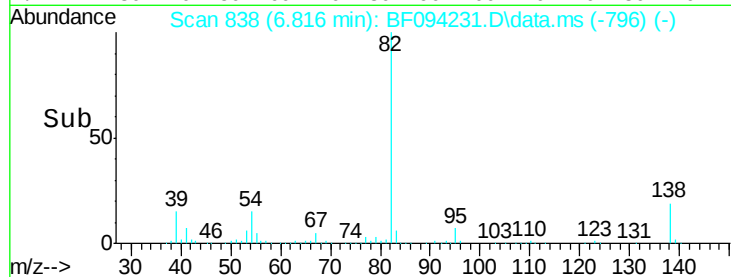
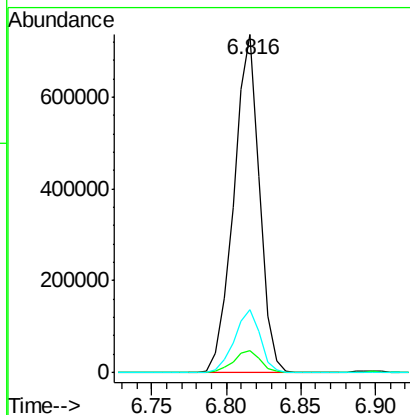
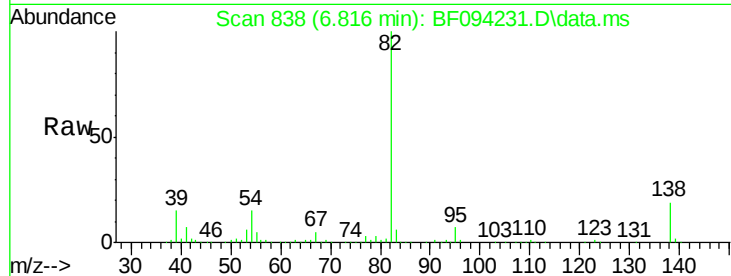
Tot Ion: 82 Resp: 884280

Ion Ratio Lower Upper

82 100

95 6.6 5.3 7.9

138 18.7 13.1 19.7



#26

2-Nitrophenol

Concen: 47.07 ng

RT: 6.904 min Scan# 853

Delta R.T. -0.047 min

Lab File: BF094231.D

Acq: 6 Apr 2017 16:35

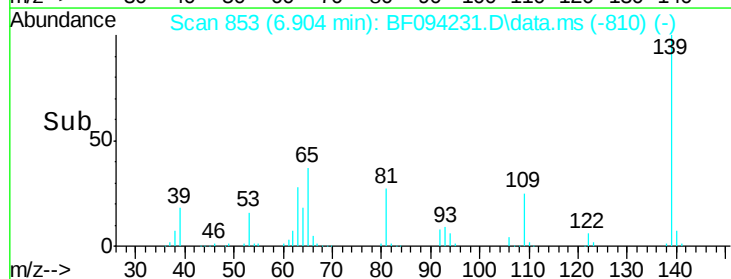
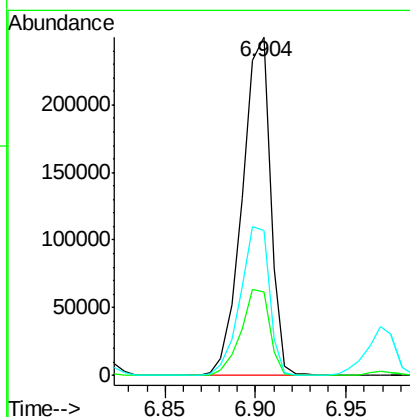
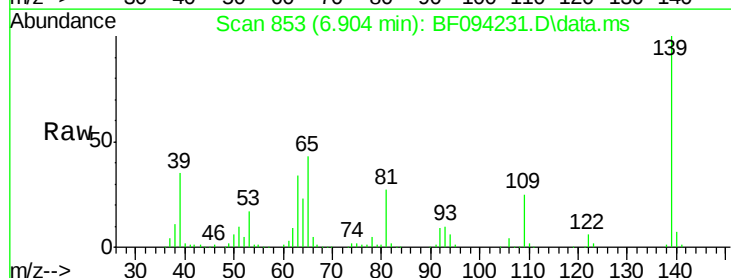
Tgt Ion: 139 Resp: 270886

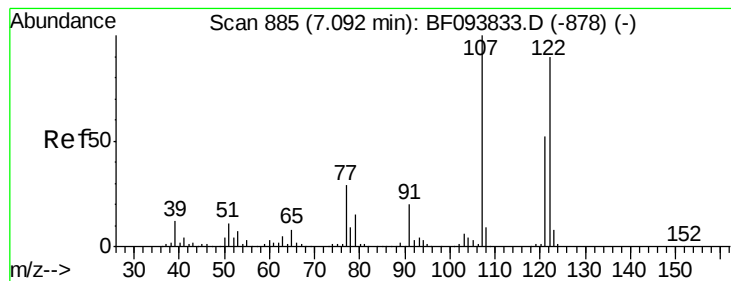
Ion Ratio Lower Upper

139 100

109 24.8 21.0 31.6

65 42.8 33.0 49.6





#27

2,4-Dimethylphenol

Concen: 44.18 ng

RT: 6.969 min Scan# 86

Delta R.T. -0.053 min

Lab File: BF094231.D

Acq: 6 Apr 2017 16:35

Instrument :

BNA\_F

ClientSampleId :

B4-(0-5)MSD

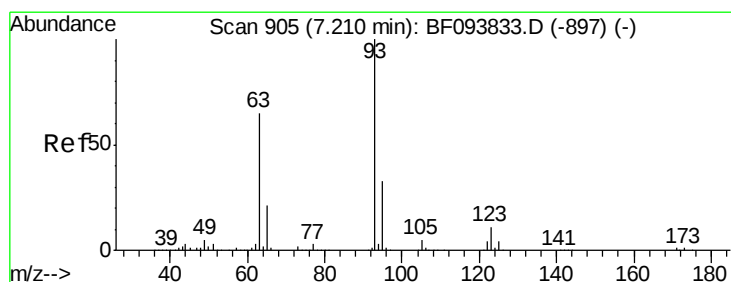
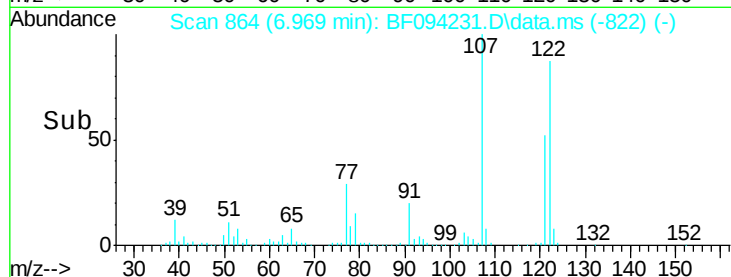
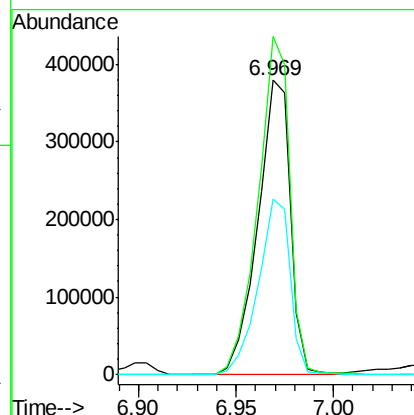
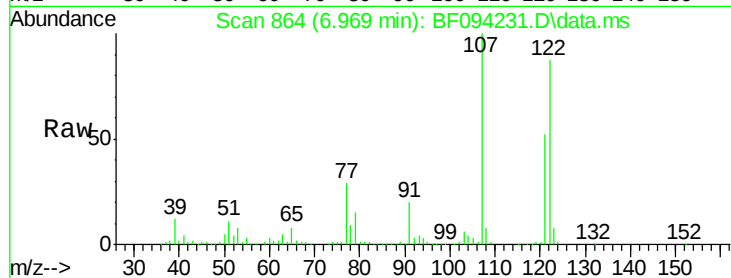
Tot Ion:122 Resp: 438015

Ion Ratio Lower Upper

122 100

107 114.8 89.2 133.8

121 59.6 45.2 67.8



#28

bis(2-Chloroethoxy)methane

Concen: 40.78 ng

RT: 7.081 min Scan# 883

Delta R.T. -0.047 min

Lab File: BF094231.D

Acq: 6 Apr 2017 16:35

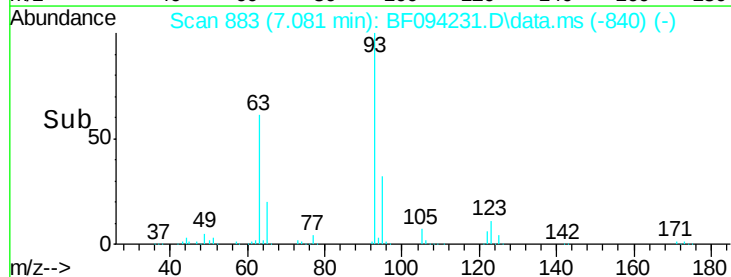
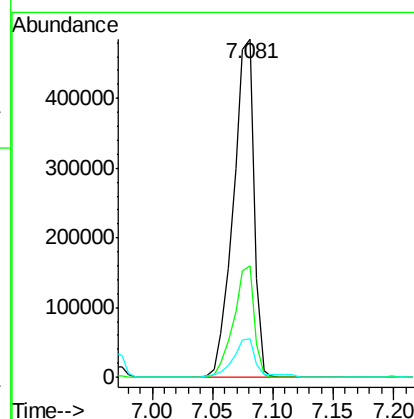
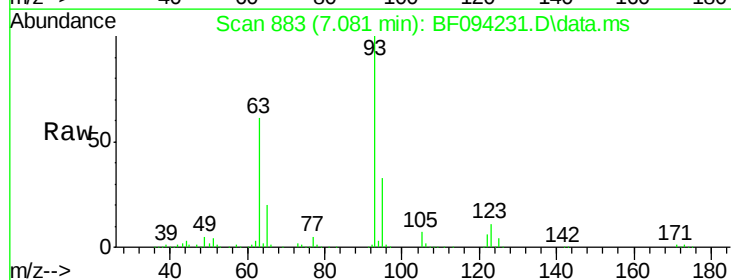
Tgt Ion: 93 Resp: 578197

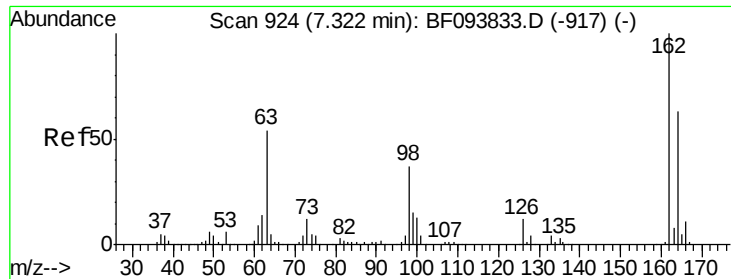
Ion Ratio Lower Upper

93 100

95 33.2 26.5 39.7

123 11.3 9.0 13.4

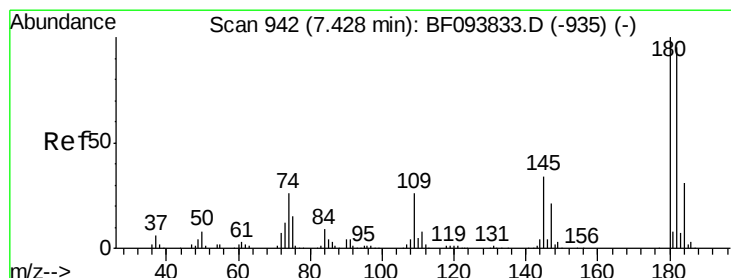
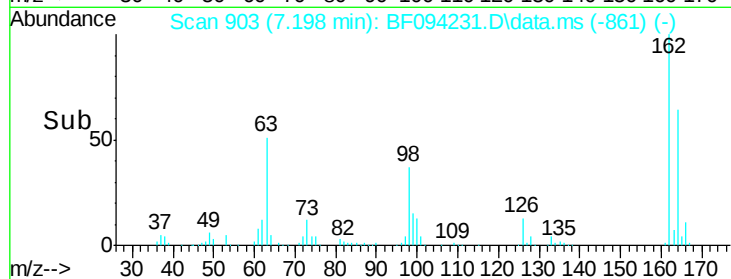
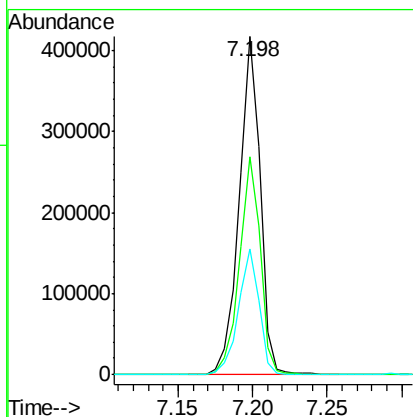
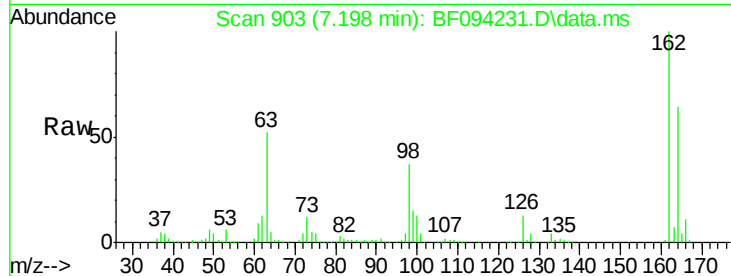




#29  
2,4-Dichlorophenol  
Concen: 44.22 ng  
RT: 7.198 min Scan# 90  
Delta R.T. -0.053 min  
Lab File: BF094231.D  
Acq: 6 Apr 2017 16:35

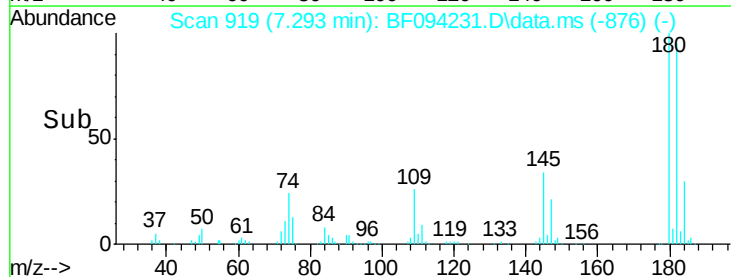
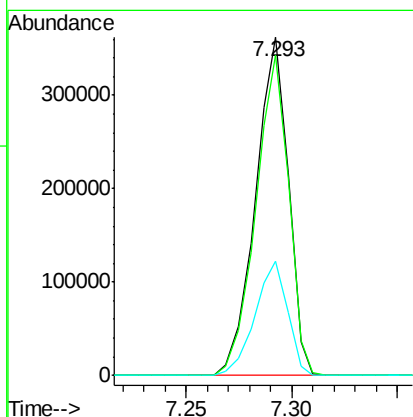
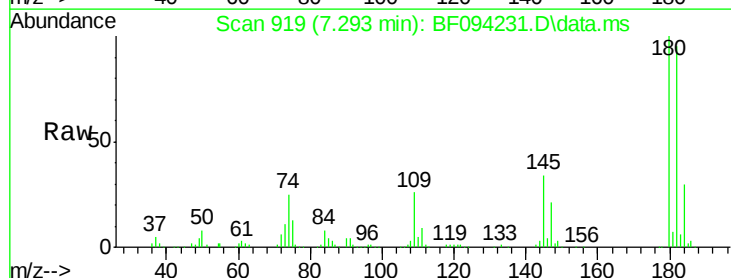
Instrument :  
BNA\_F  
ClientSampleId :  
B4-(0-5)MSD

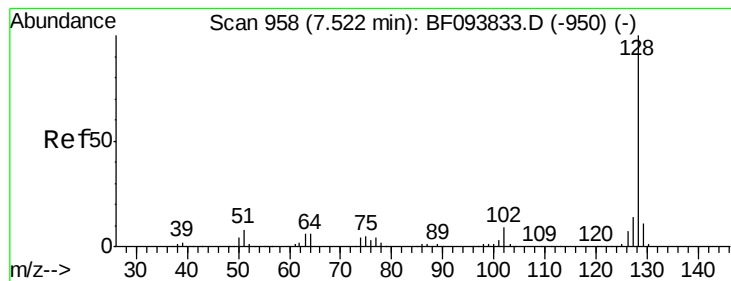
| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 162     | 100   |       |       |
| 164     | 64.5  | 44.6  | 84.6  |
| 98      | 37.1  | 14.8  | 54.8  |



#30  
1,2,4-Trichlorobenzene  
Concen: 41.05 ng  
RT: 7.293 min Scan# 919  
Delta R.T. -0.047 min  
Lab File: BF094231.D  
Acq: 6 Apr 2017 16:35

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 180     | 100   |       |       |
| 182     | 94.5  | 75.8  | 113.6 |
| 145     | 33.7  | 25.3  | 37.9  |





#31

Naphthalene

Concen: 39.97 ng

RT: 7.381 min Scan# 93

Delta R.T. -0.053 min

Lab File: BF094231.D

Acq: 6 Apr 2017 16:35

Instrument :

BNA\_F

ClientSampleId :

B4-(0-5)MSD

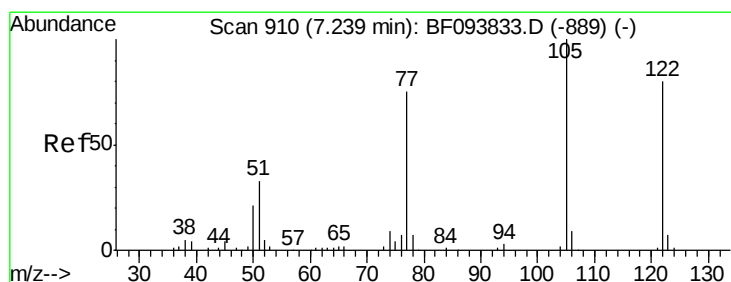
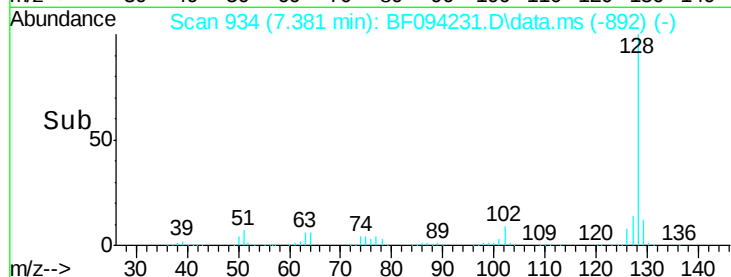
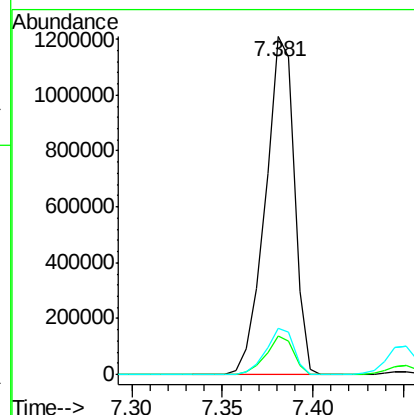
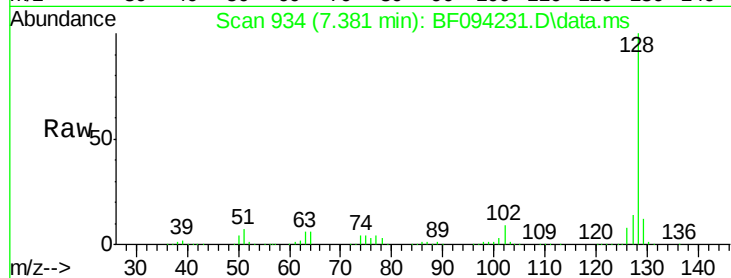
Tot Ion:128 Resp: 1341763

Ion Ratio Lower Upper

128 100

129 11.6 9.0 13.6

127 13.7 10.8 16.2



#32

Benzoic acid

Concen: 23.96 ng

RT: 7.116 min Scan# 889

Delta R.T. -0.071 min

Lab File: BF094231.D

Acq: 6 Apr 2017 16:35

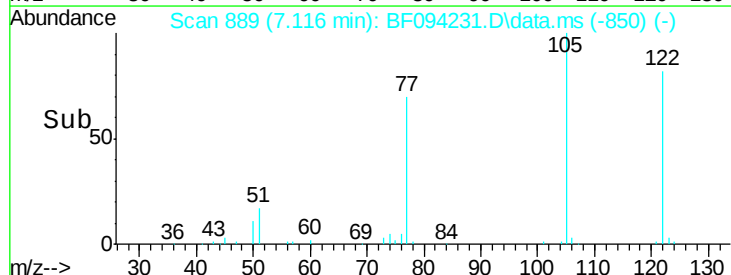
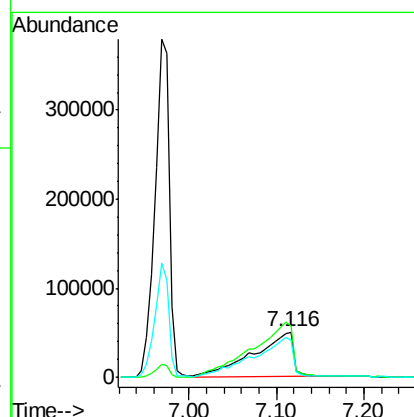
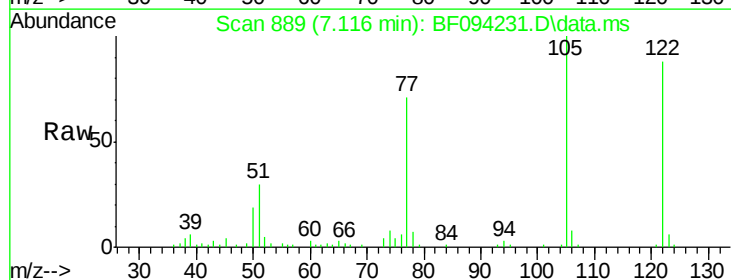
Tgt Ion:122 Resp: 158172

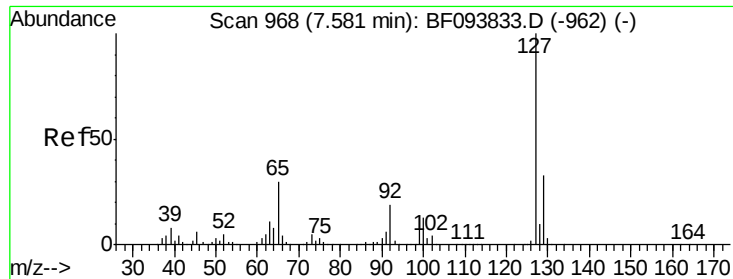
Ion Ratio Lower Upper

122 100

105 113.2 103.3 143.3

77 80.8 73.7 113.7

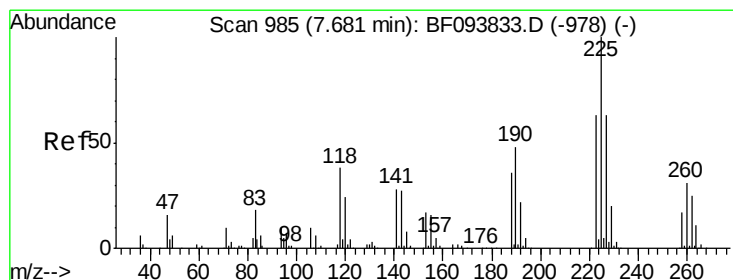
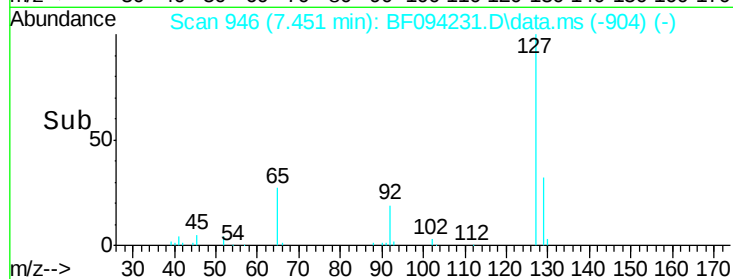
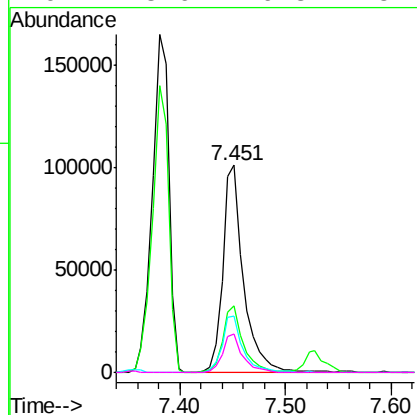
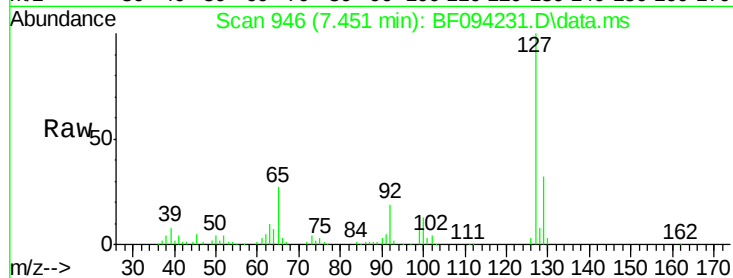




#33  
4-Chloroaniline  
Concen: 10.26 ng  
RT: 7.451 min Scan# 94  
Delta R.T. -0.053 min  
Lab File: BF094231.D  
Acq: 6 Apr 2017 16:35

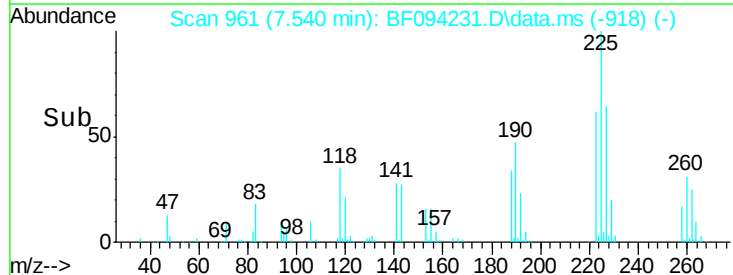
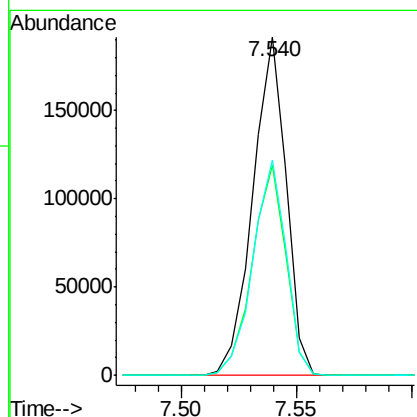
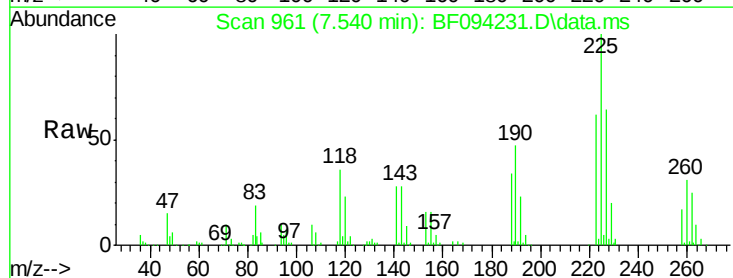
Instrument :  
BNA\_F  
ClientSampleId :  
B4-(0-5)MSD

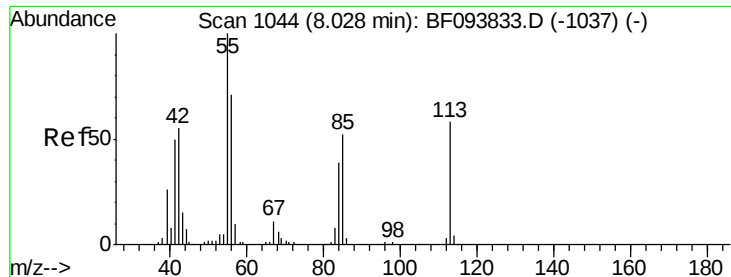
|           |       |       |        |
|-----------|-------|-------|--------|
| Tot Ion:  | 127   | Resp: | 139635 |
| Ion Ratio | Lower | Upper |        |
| 127       | 100   |       |        |
| 129       | 32.0  | 26.2  | 39.2   |
| 65        | 27.0  | 27.8  | 41.8#  |
| 92        | 18.6  | 16.8  | 25.2   |



#34  
Hexachlorobutadiene  
Concen: 39.55 ng  
RT: 7.540 min Scan# 961  
Delta R.T. -0.047 min  
Lab File: BF094231.D  
Acq: 6 Apr 2017 16:35

|           |       |       |        |
|-----------|-------|-------|--------|
| Tgt Ion:  | 225   | Resp: | 193653 |
| Ion Ratio | Lower | Upper |        |
| 225       | 100   |       |        |
| 223       | 62.0  | 48.8  | 73.2   |
| 227       | 63.7  | 51.1  | 76.7   |





#35

Caprolactam

Concen: 24.48 ng

RT: 7.892 min Scan# 1044

Delta R.T. -0.065 min

Lab File: BF094231.D

Acq: 6 Apr 2017 16:35

Instrument :

BNA\_F

ClientSampleId :

B4-(0-5)MSD

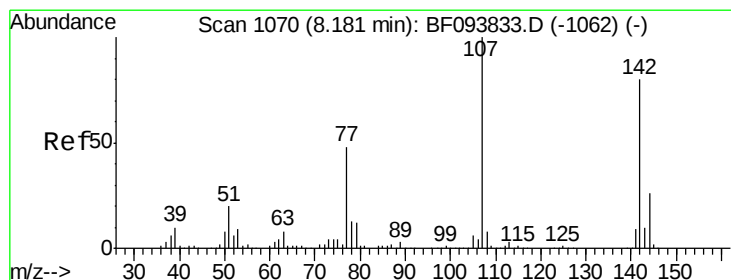
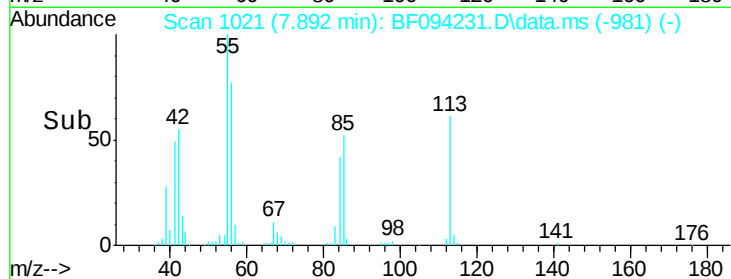
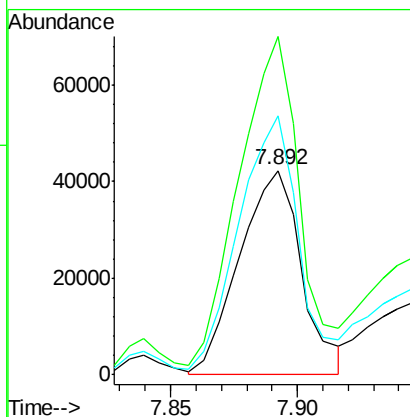
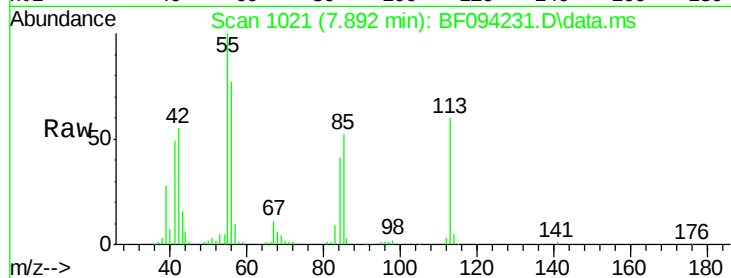
Tot Ion:113 Resp: 72377

Ion Ratio Lower Upper

113 100

55 165.7 150.2 190.2

56 126.9 107.8 147.8



#36

4-Chloro-3-methylphenol

Concen: 45.35 ng

RT: 8.075 min Scan# 1052

Delta R.T. -0.041 min

Lab File: BF094231.D

Acq: 6 Apr 2017 16:35

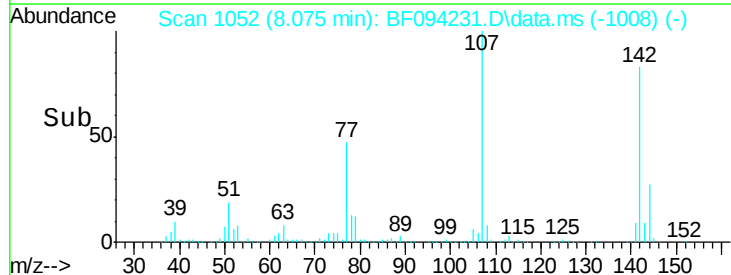
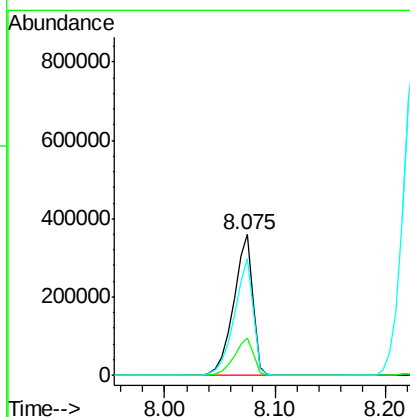
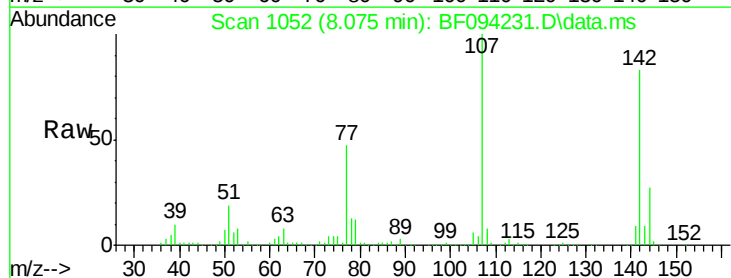
Tgt Ion:107 Resp: 439296

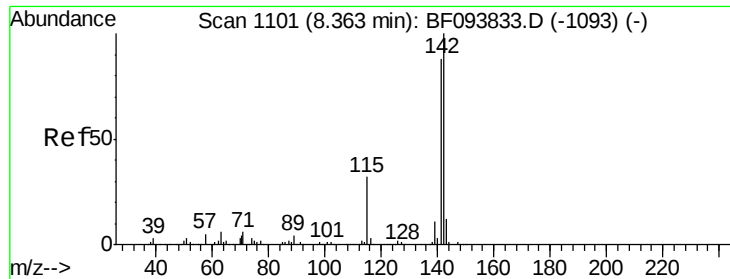
Ion Ratio Lower Upper

107 100

144 26.7 24.2 36.4

142 82.8 73.4 110.0

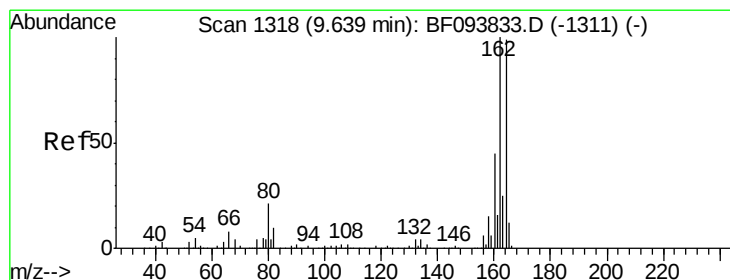
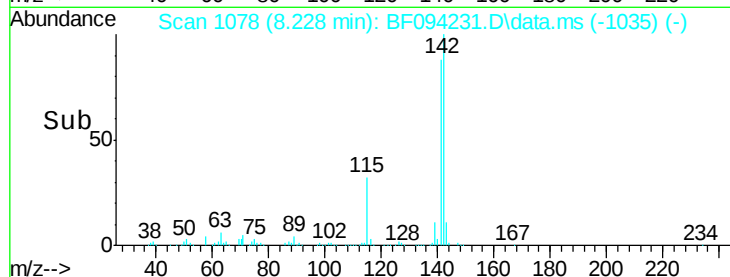
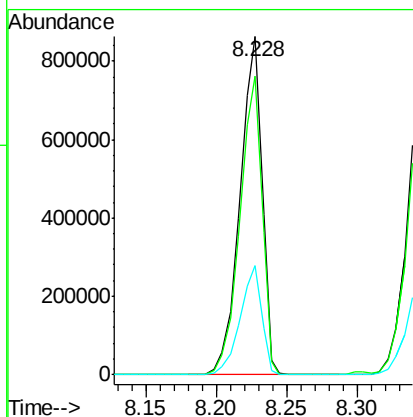
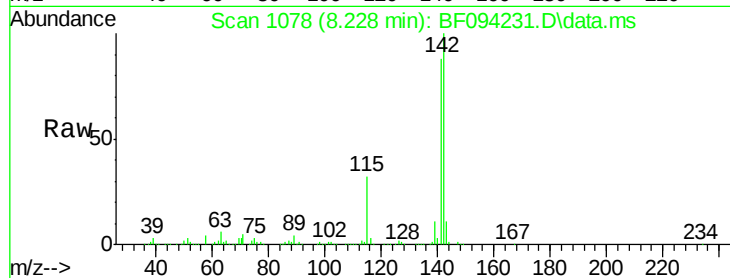




#37  
2-Methylnaphthalene  
Concen: 41.87 ng  
RT: 8.228 min Scan# 10  
Delta R.T. -0.047 min  
Lab File: BF094231.D  
Acq: 6 Apr 2017 16:35

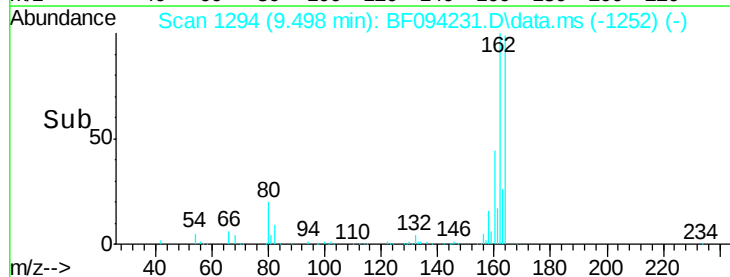
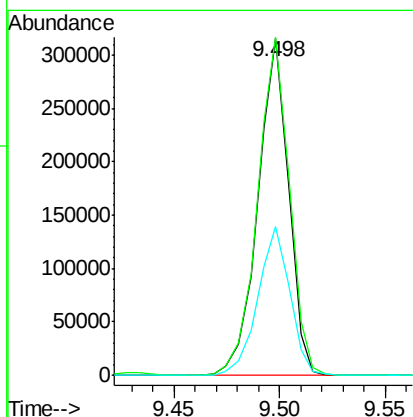
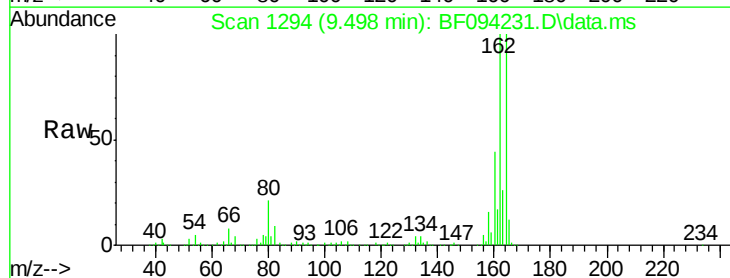
Instrument :  
BNA\_F  
ClientSampleId :  
B4-(0-5)MSD

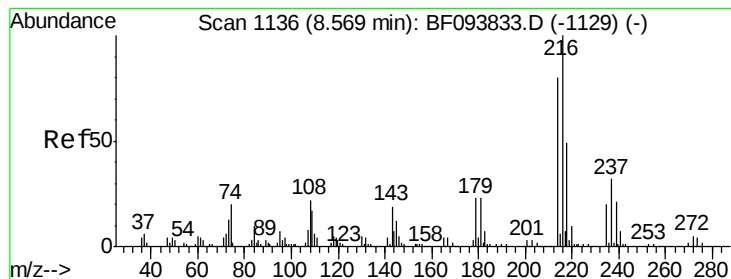
| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 142     | 100   |       |       |
| 141     | 88.2  | 71.3  | 106.9 |
| 115     | 32.2  | 27.1  | 40.7  |



#38  
Acenaphthene-d10  
Concen: 20.00 ng  
RT: 9.498 min Scan# 1294  
Delta R.T. -0.053 min  
Lab File: BF094231.D  
Acq: 6 Apr 2017 16:35

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 164     | 100   |       |       |
| 162     | 100.3 | 82.6  | 123.8 |
| 160     | 44.2  | 36.2  | 54.2  |





#39

1,2,4,5-Tetrachlorobenzene

Concen: 39.57 ng

RT: 8.434 min Scan# 1111

Delta R.T. -0.047 min

Lab File: BF094231.D

Acq: 6 Apr 2017 16:35

Instrument :

BNA\_F

ClientSampleId :

B4-(0-5)MSD

Tot Ion:216 Resp: 345520

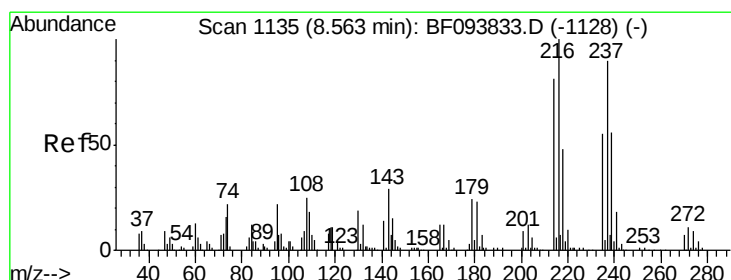
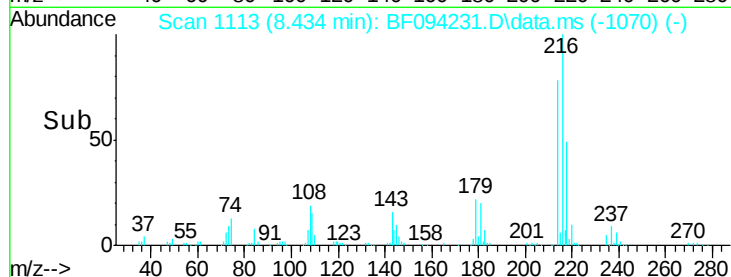
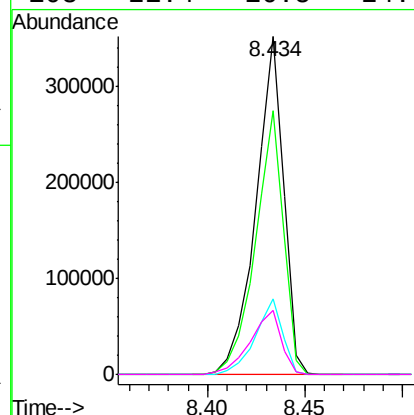
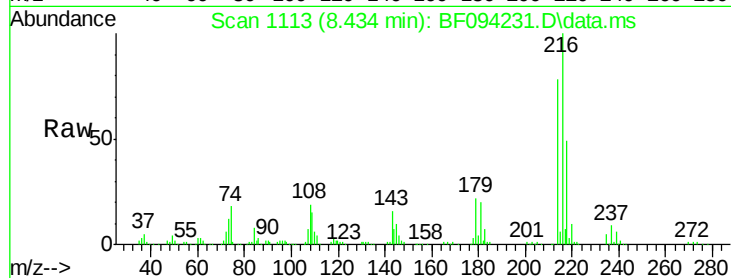
Ion Ratio Lower Upper

216 100

214 78.7 63.4 95.2

179 22.2 17.9 26.9

108 21.4 16.5 24.7



#40

Hexachlorocyclopentadiene

Concen: 60.24 ng

RT: 8.422 min Scan# 1111

Delta R.T. -0.053 min

Lab File: BF094231.D

Acq: 6 Apr 2017 16:35

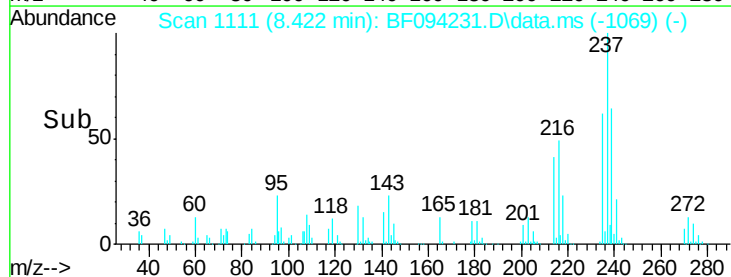
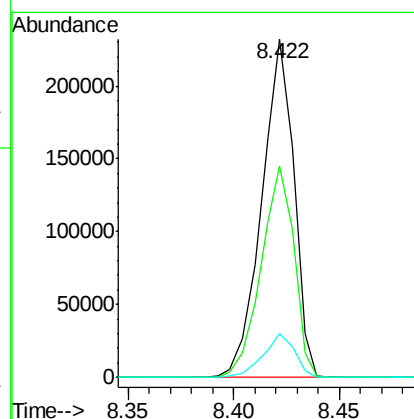
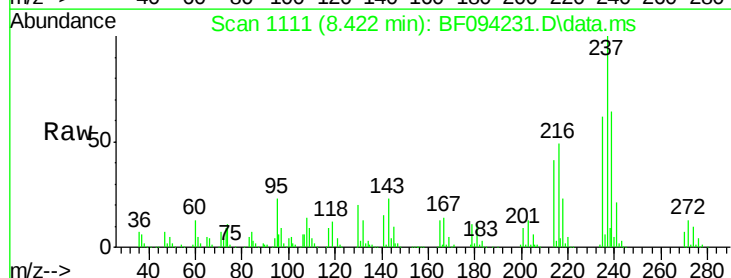
Tgt Ion:237 Resp: 246099

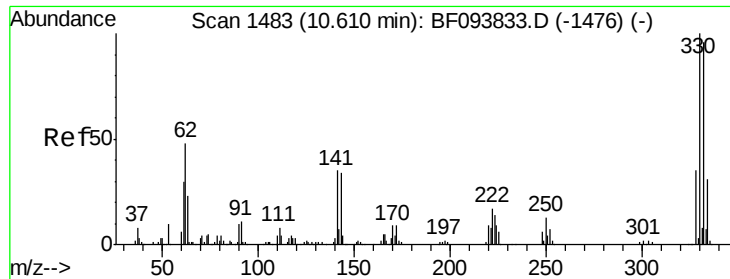
Ion Ratio Lower Upper

237 100

235 62.4 42.6 82.6

272 13.0 0.0 31.9

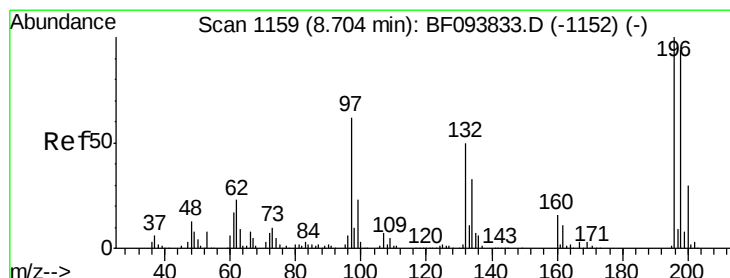
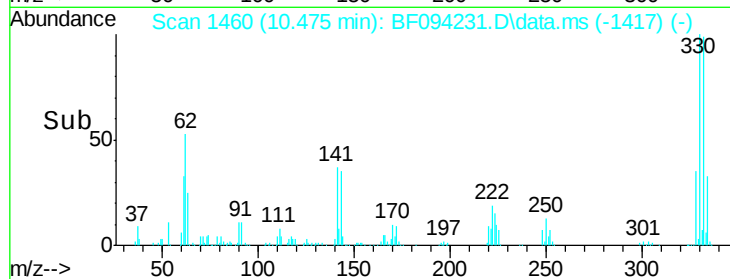
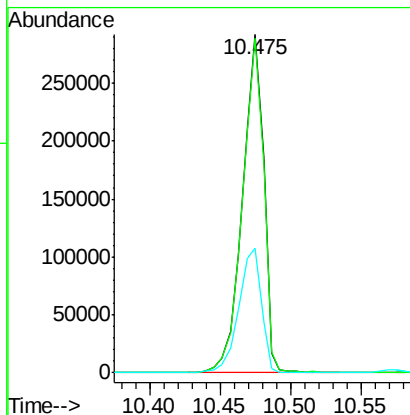
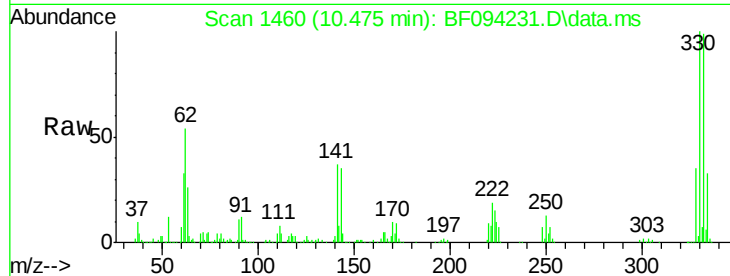




#41  
 2,4,6-Tribromophenol  
 Concen: 120.96 ng  
 RT: 10.475 min Scan# 1483  
 Delta R.T. -0.047 min  
 Lab File: BF094231.D  
 Acq: 6 Apr 2017 16:35

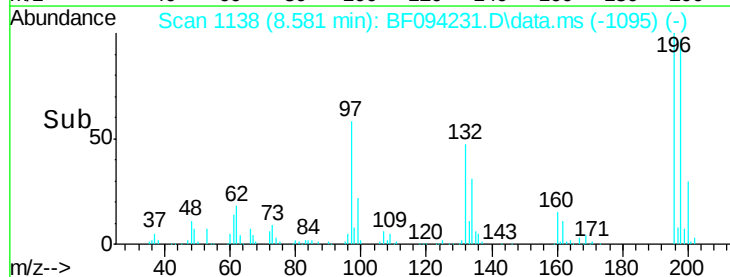
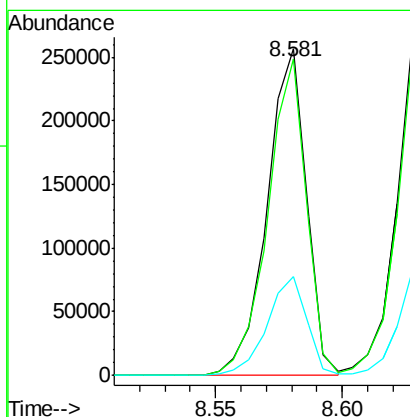
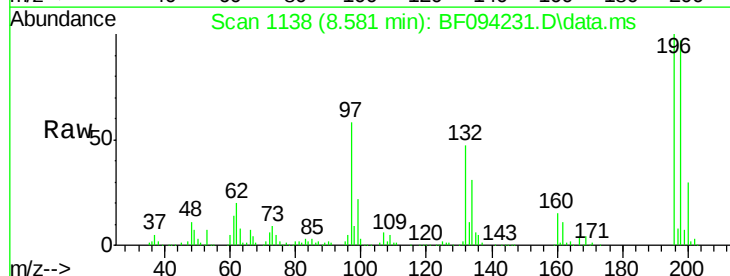
Instrument :  
 BNA\_F  
 ClientSampleId :  
 B4-(0-5)MSD

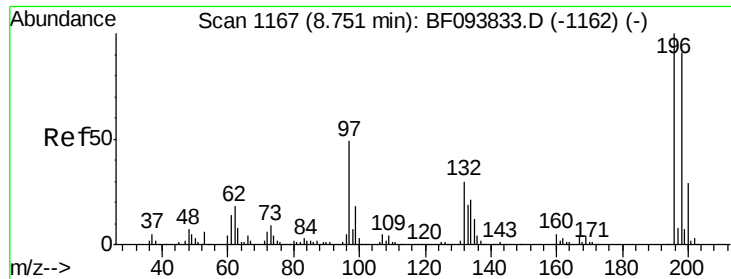
Tot Ion:330 Resp: 305060  
 Ion Ratio Lower Upper  
 330 100  
 332 99.1 76.6 115.0  
 141 39.3 31.4 47.2



#42  
 2,4,6-Trichlorophenol  
 Concen: 44.53 ng  
 RT: 8.581 min Scan# 1138  
 Delta R.T. -0.047 min  
 Lab File: BF094231.D  
 Acq: 6 Apr 2017 16:35

Tgt Ion:196 Resp: 275093  
 Ion Ratio Lower Upper  
 196 100  
 198 96.8 74.2 111.4  
 200 30.3 24.0 36.0

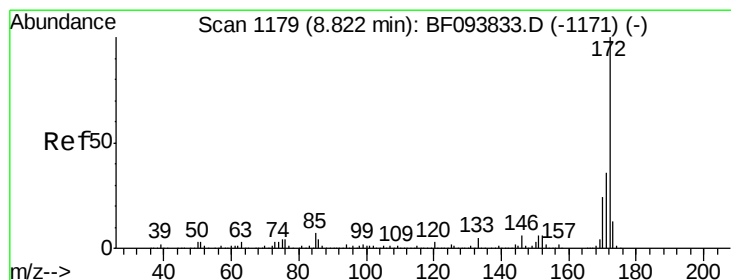
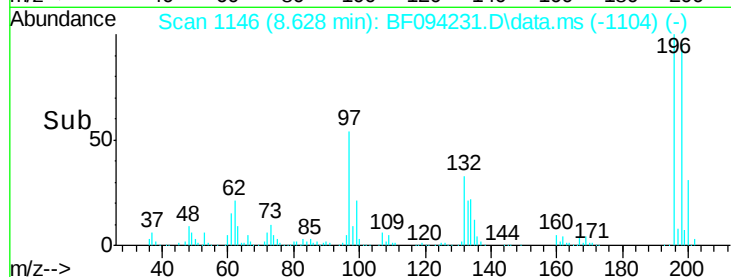
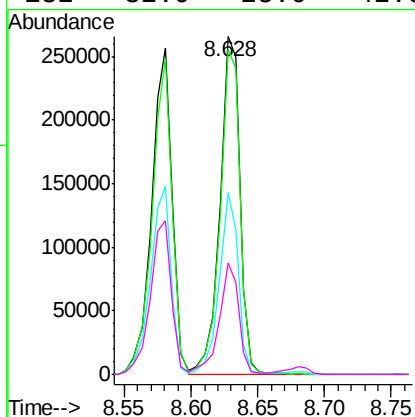
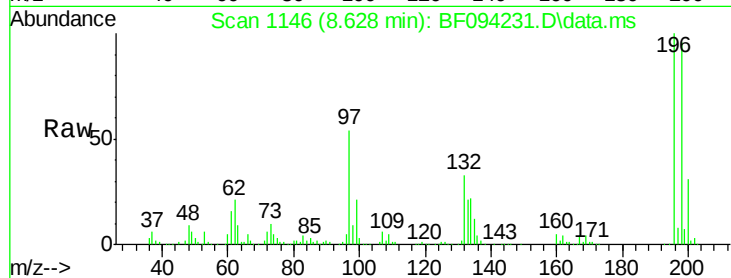




#43  
 2,4,5-Trichlorophenol  
 Concen: 42.42 ng  
 RT: 8.628 min Scan# 111  
 Delta R.T. -0.053 min  
 Lab File: BF094231.D  
 Acq: 6 Apr 2017 16:35

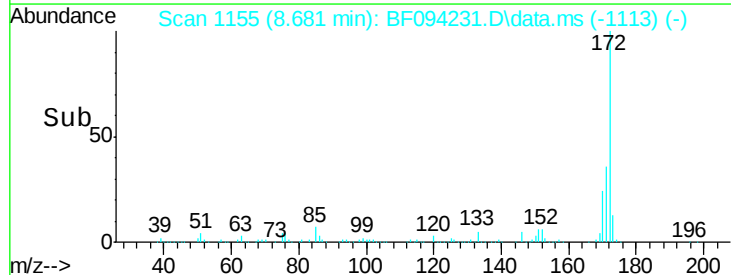
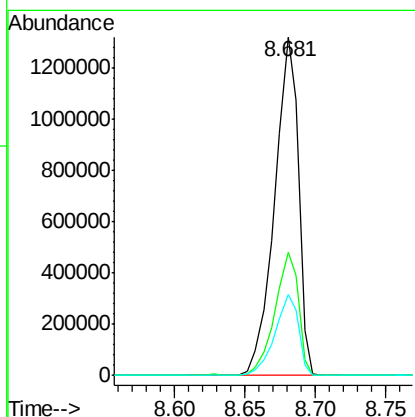
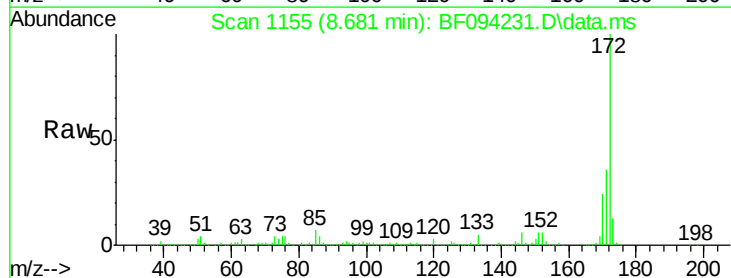
Instrument :  
 BNA\_F  
 ClientSampleId :  
 B4-(0-5)MSD

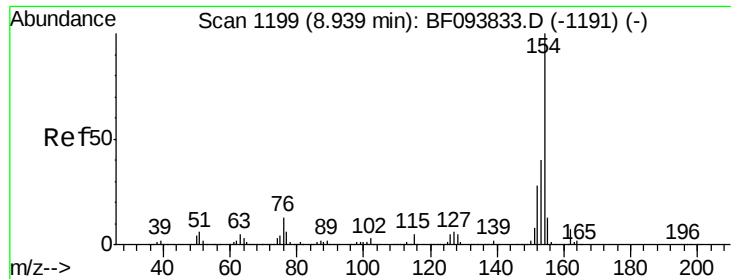
| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 196     | 100   |       |       |
| 198     | 96.4  | 75.7  | 113.5 |
| 97      | 53.7  | 47.7  | 71.5  |
| 132     | 32.9  | 28.0  | 42.0  |



#44  
 2-Fluorobiphenyl  
 Concen: 74.48 ng  
 RT: 8.681 min Scan# 1155  
 Delta R.T. -0.053 min  
 Lab File: BF094231.D  
 Acq: 6 Apr 2017 16:35

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 172     | 100   |       |       |
| 171     | 36.2  | 29.6  | 44.4  |
| 170     | 23.9  | 19.8  | 29.8  |

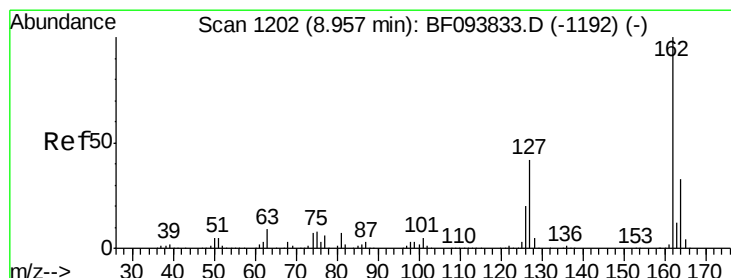
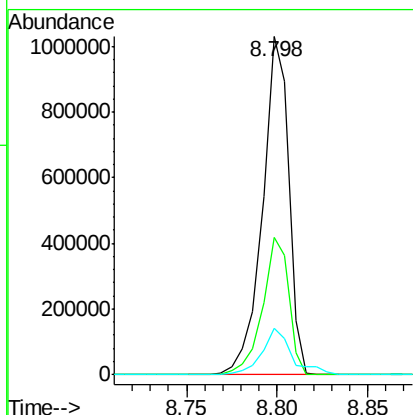
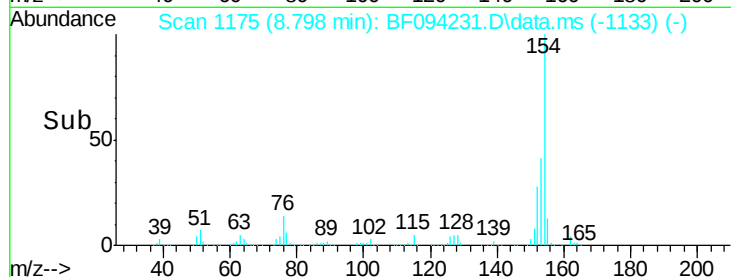
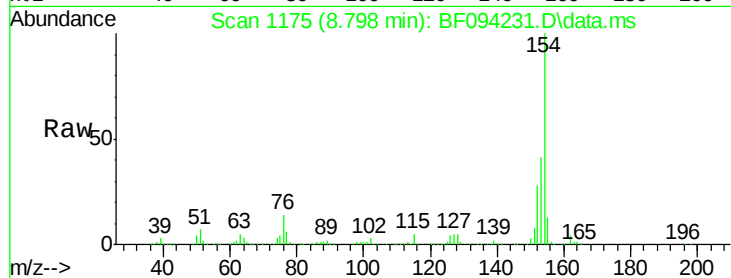




#45  
 1,1'-Biphenyl  
 Concen: 40.30 ng  
 RT: 8.798 min Scan# 111  
 Delta R.T. -0.053 min  
 Lab File: BF094231.D  
 Acq: 6 Apr 2017 16:35

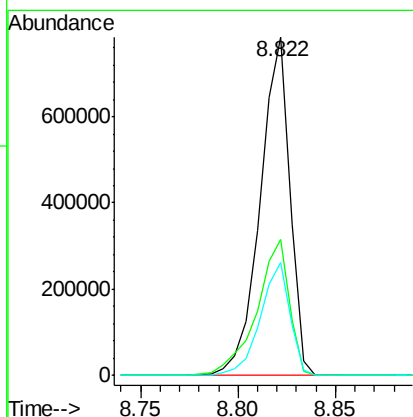
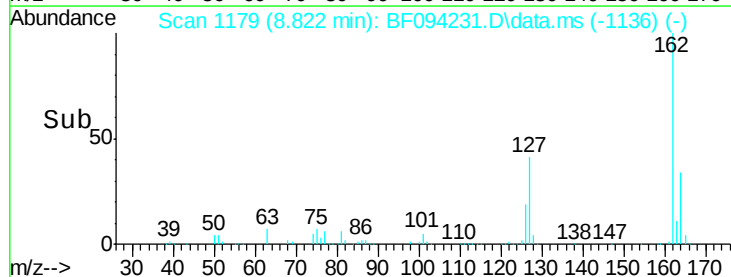
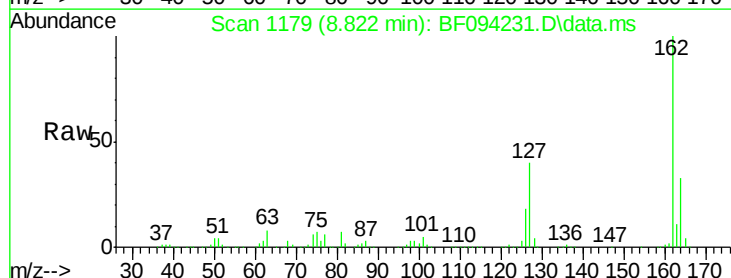
Instrument :  
 BNA\_F  
 ClientSampleId :  
 B4-(0-5)MSD

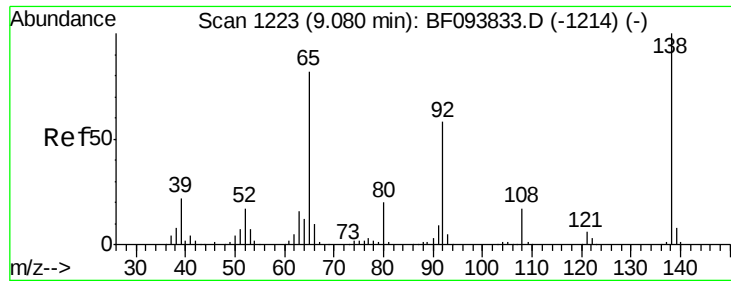
Tot Ion:154 Resp: 1037436  
 Ion Ratio Lower Upper  
 154 100  
 153 40.6 21.2 61.2  
 76 13.7 0.0 29.9



#46  
 2-Chloronaphthalene  
 Concen: 40.94 ng  
 RT: 8.822 min Scan# 1179  
 Delta R.T. -0.047 min  
 Lab File: BF094231.D  
 Acq: 6 Apr 2017 16:35

Tgt Ion:162 Resp: 825053  
 Ion Ratio Lower Upper  
 162 100  
 127 40.3 28.3 42.5  
 164 33.4 27.0 40.4

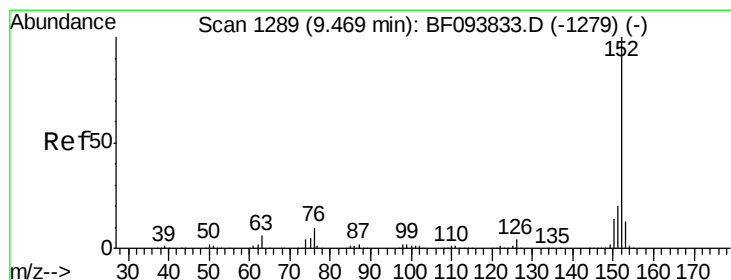
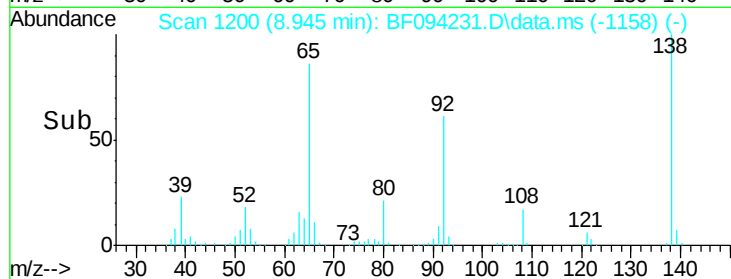
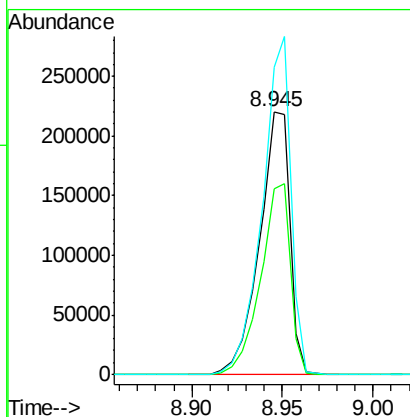
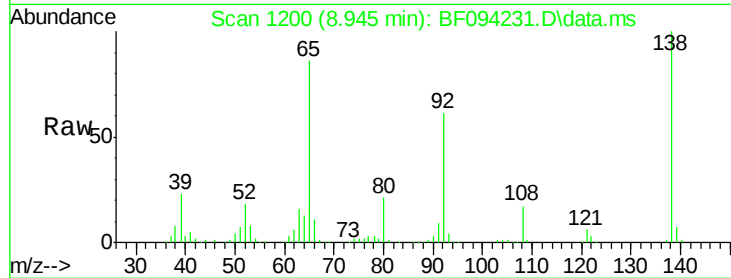




#47  
 2-Nitroaniline  
 Concen: 42.95 ng  
 RT: 8.945 min Scan# 121  
 Delta R.T. -0.053 min  
 Lab File: BF094231.D  
 Acq: 6 Apr 2017 16:35

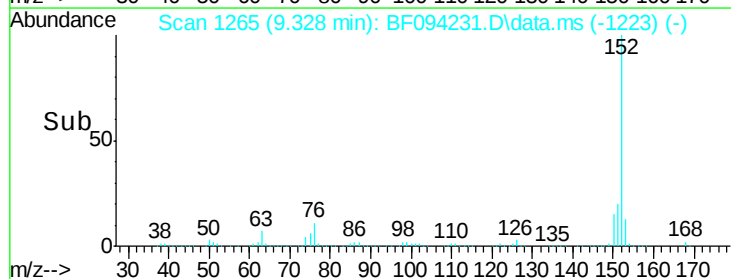
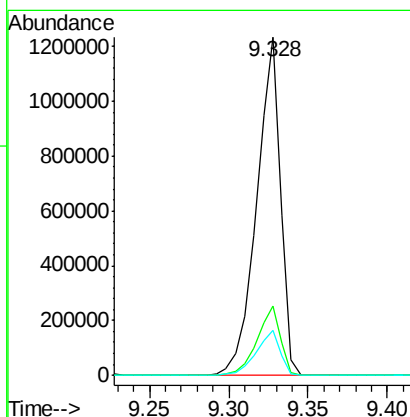
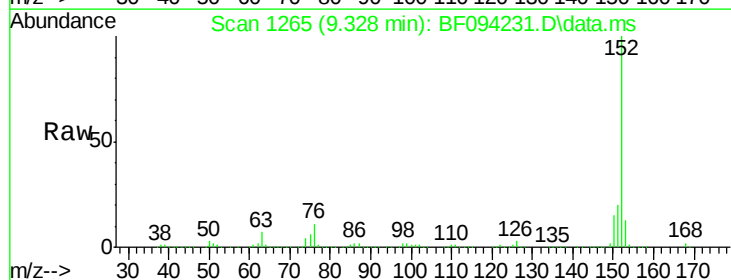
Instrument :  
 BNA\_F  
 ClientSampleId :  
 B4-(0-5)MSD

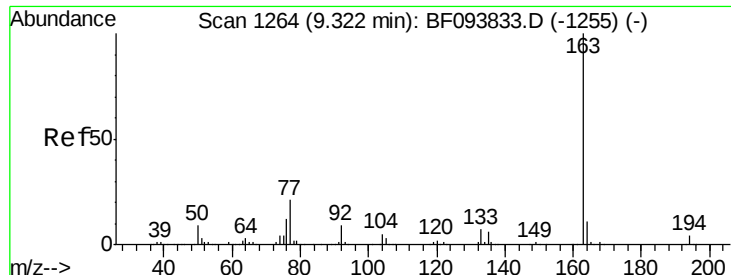
Tot Ion: 65 Resp: 256735  
 Ion Ratio Lower Upper  
 65 100  
 92 70.8 53.9 80.9  
 138 116.9 78.8 118.2



#48  
 Acenaphthylene  
 Concen: 38.64 ng  
 RT: 9.328 min Scan# 1265  
 Delta R.T. -0.053 min  
 Lab File: BF094231.D  
 Acq: 6 Apr 2017 16:35

Tgt Ion: 152 Resp: 1294093  
 Ion Ratio Lower Upper  
 152 100  
 151 20.5 16.8 25.2  
 153 13.4 10.8 16.2

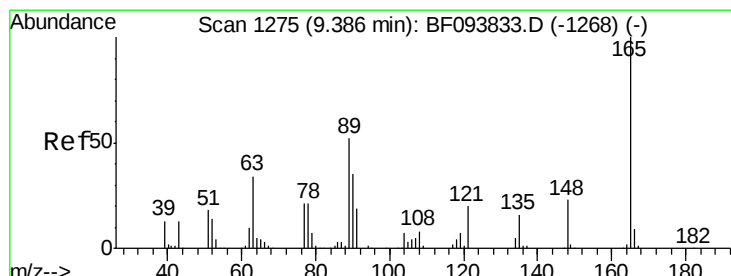
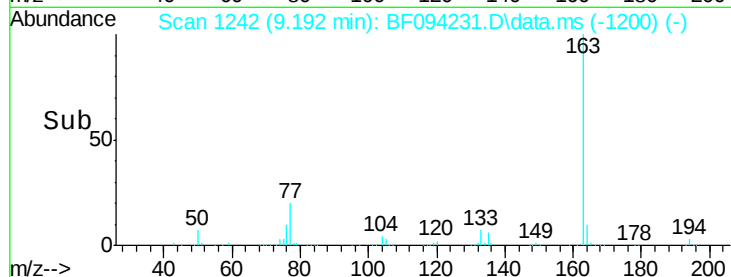
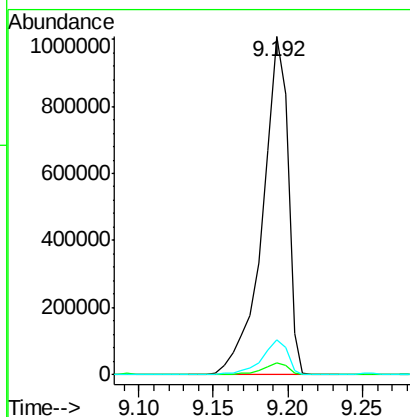
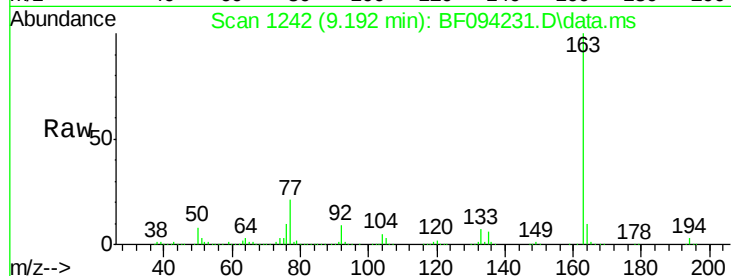




#49  
Dimethylphthalate  
Concen: 52.38 ng  
RT: 9.192 min Scan# 1264  
Delta R.T. -0.053 min  
Lab File: BF094231.D  
Acq: 6 Apr 2017 16:35

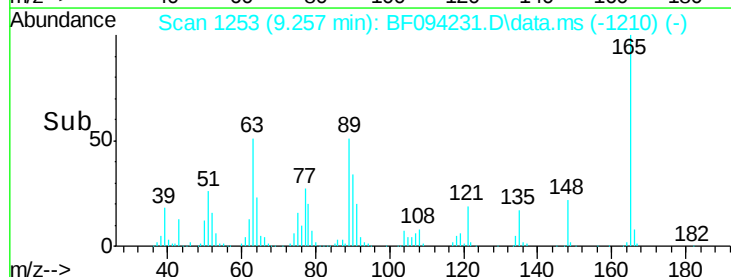
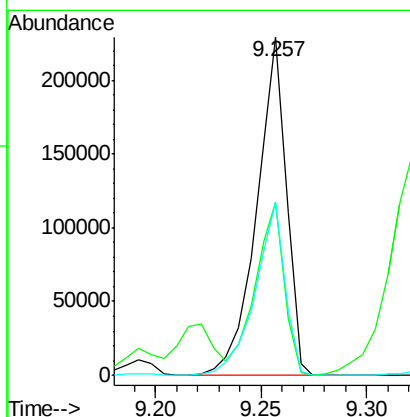
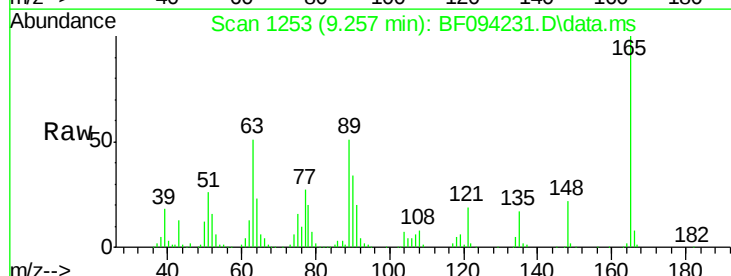
Instrument :  
BNA\_F  
ClientSampleId :  
B4-(0-5)MSD

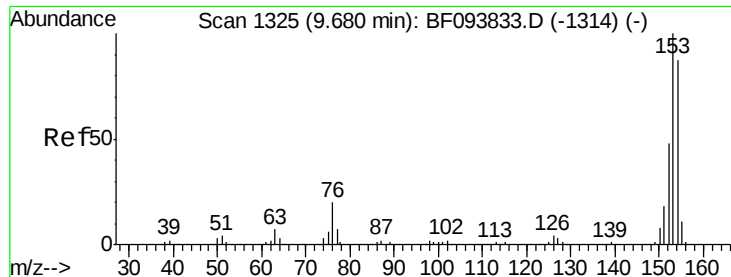
Tot Ion:163 Resp: 1188363  
Ion Ratio Lower Upper  
163 100  
194 3.4 2.6 4.0  
164 10.3 8.4 12.6



#50  
2,6-Dinitrotoluene  
Concen: 43.16 ng  
RT: 9.257 min Scan# 1253  
Delta R.T. -0.047 min  
Lab File: BF094231.D  
Acq: 6 Apr 2017 16:35

Tgt Ion:165 Resp: 224455  
Ion Ratio Lower Upper  
165 100  
63 51.3 34.3 51.5  
89 51.0 37.1 55.7





#51

Acenaphthene

Concen: 39.34 ng

RT: 9.539 min Scan# 13

Delta R.T. -0.053 min

Lab File: BF094231.D

Acq: 6 Apr 2017 16:35

Instrument :

BNA\_F

ClientSampleId :

B4-(0-5)MSD

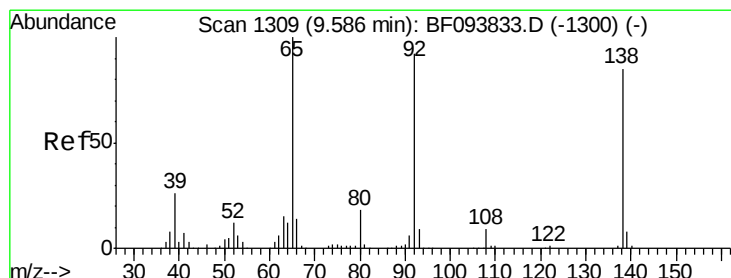
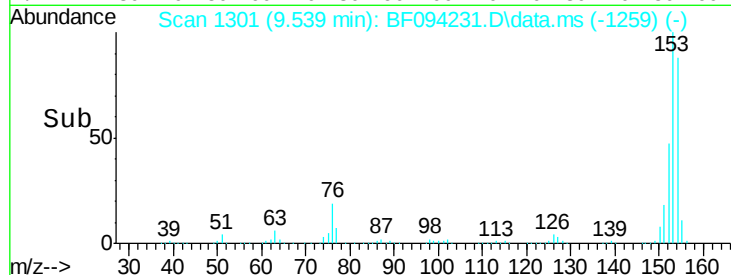
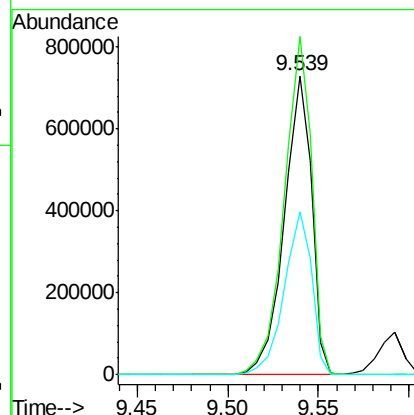
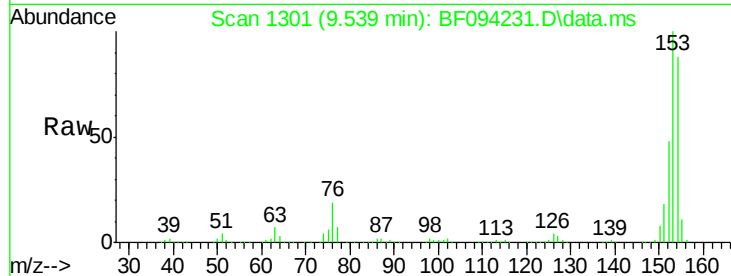
Tot Ion:154 Resp: 768852

Ion Ratio Lower Upper

154 100

153 113.1 90.5 135.7

152 54.3 43.6 65.4



#52

3-Nitroaniline

Concen: 18.77 ng

RT: 9.451 min Scan# 1286

Delta R.T. -0.059 min

Lab File: BF094231.D

Acq: 6 Apr 2017 16:35

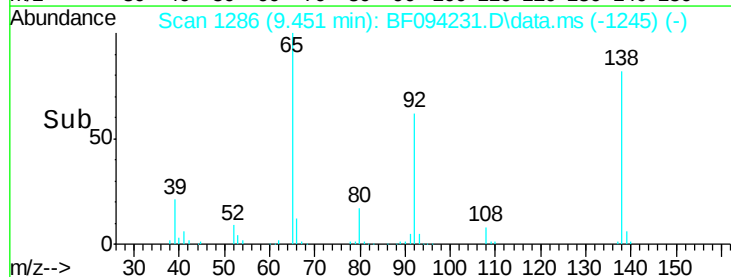
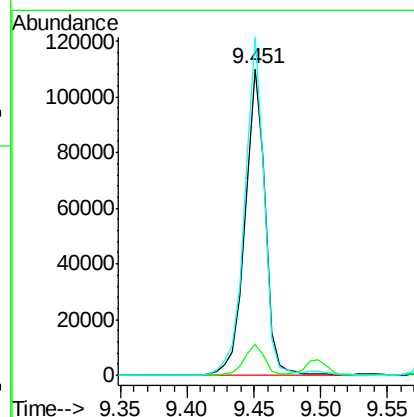
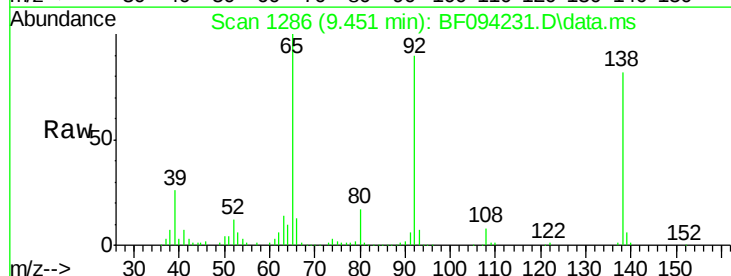
Tgt Ion:138 Resp: 114631

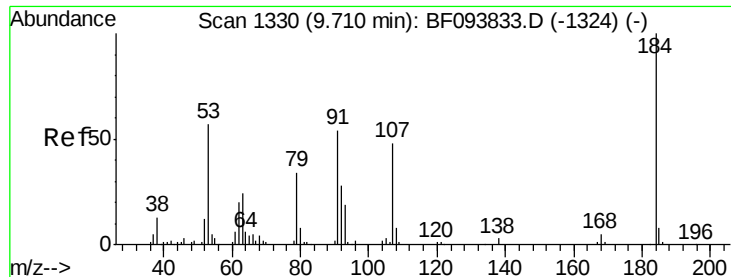
Ion Ratio Lower Upper

138 100

108 10.2 9.1 13.7

92 110.2 93.8 140.6

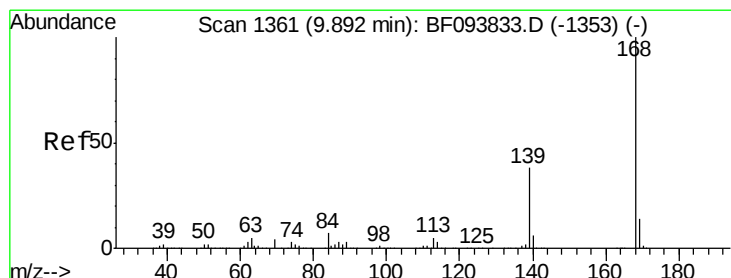
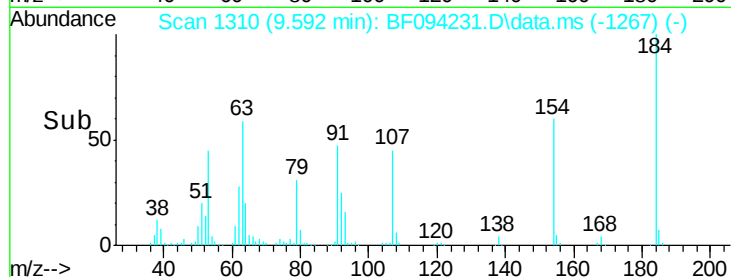
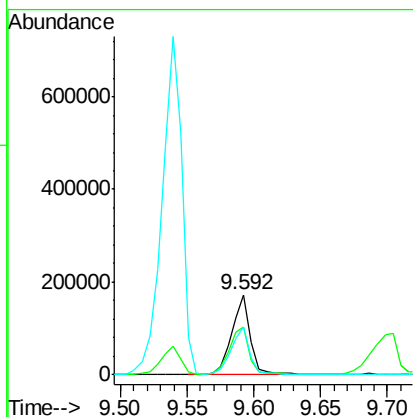
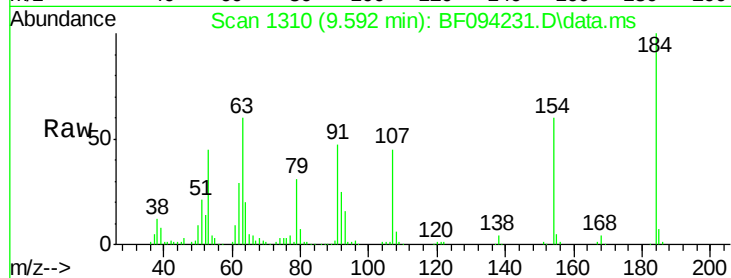




#53  
2,4-Dinitrophenol  
Concen: 61.49 ng  
RT: 9.592 min Scan# 1330  
Delta R.T. -0.047 min  
Lab File: BF094231.D  
Acq: 6 Apr 2017 16:35

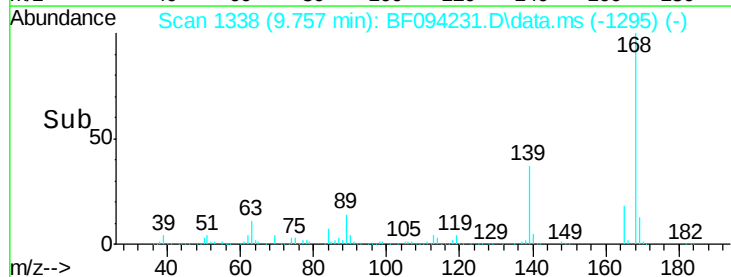
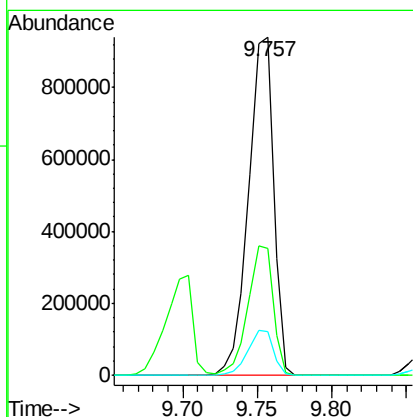
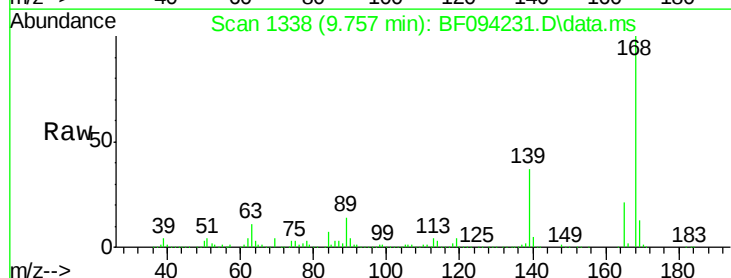
Instrument :  
BNA\_F  
ClientSampleId :  
B4-(0-5)MSD

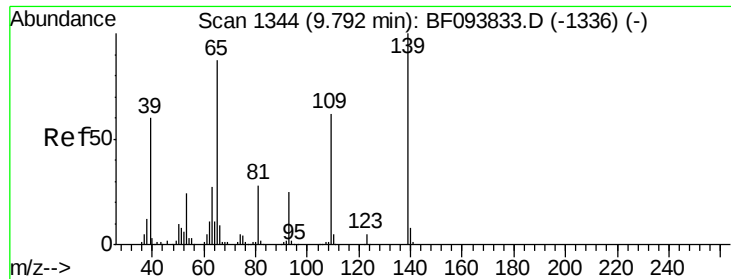
Tot Ion:184 Resp: 167938  
Ion Ratio Lower Upper  
184 100  
63 60.3 62.7 94.1#  
154 60.0 81.1 121.7#



#54  
Dibenzofuran  
Concen: 41.19 ng  
RT: 9.757 min Scan# 1338  
Delta R.T. -0.047 min  
Lab File: BF094231.D  
Acq: 6 Apr 2017 16:35

Tgt Ion:168 Resp: 1095629  
Ion Ratio Lower Upper  
168 100  
139 37.5 30.6 45.8  
169 13.0 10.8 16.2





#55

4-Nitrophenol

Concen: 74.07 ng

RT: 9.704 min Scan# 13

Delta R.T. -0.035 min

Lab File: BF094231.D

Acq: 6 Apr 2017 16:35

Instrument :

BNA\_F

ClientSampleId :

B4-(0-5)MSD

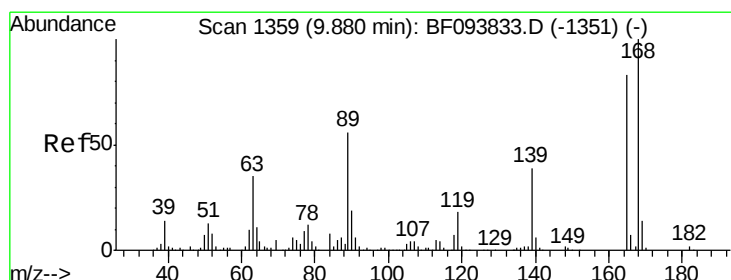
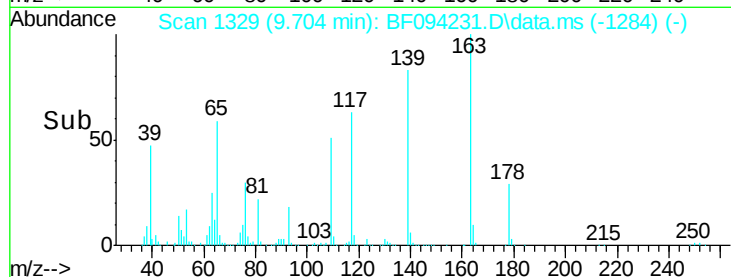
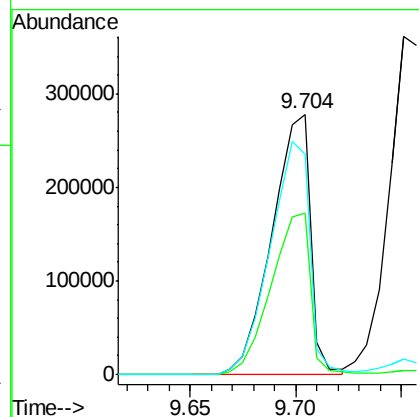
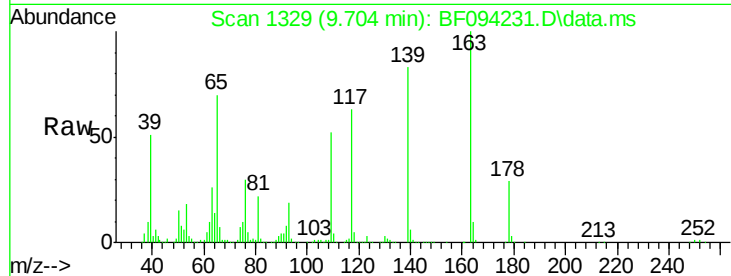
Tot Ion:139 Resp: 354233

Ion Ratio Lower Upper

139 100

109 62.0 34.1 74.1

65 84.4 31.4 71.4#



#56

2,4-Dinitrotoluene

Concen: 40.58 ng

RT: 9.751 min Scan# 1337

Delta R.T. -0.047 min

Lab File: BF094231.D

Acq: 6 Apr 2017 16:35

Tgt Ion:165 Resp: 265133

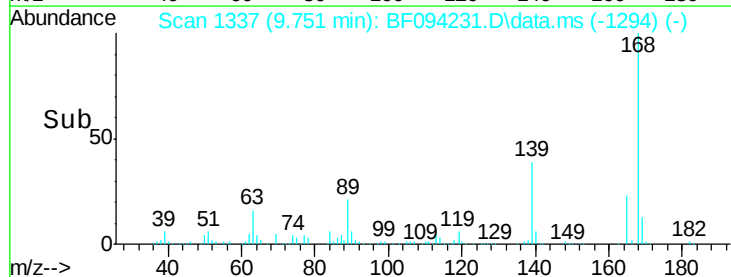
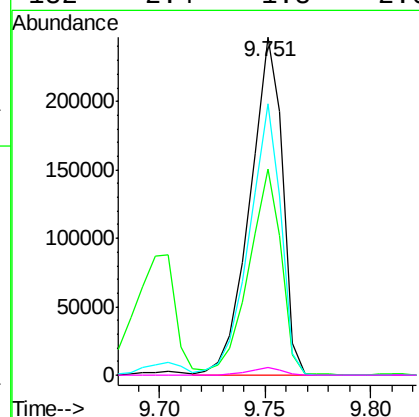
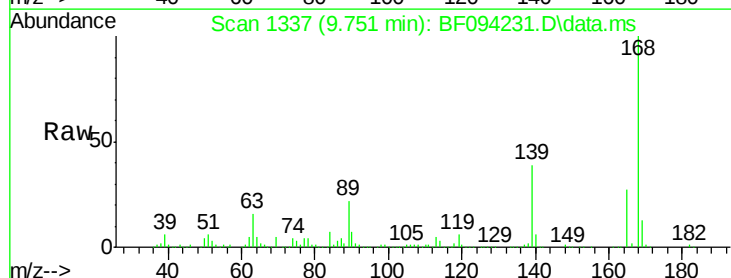
Ion Ratio Lower Upper

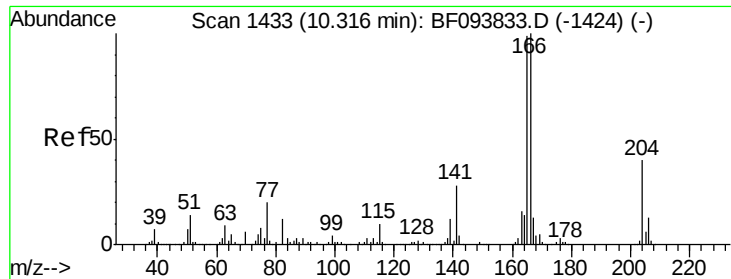
165 100

63 60.9 25.4 38.0#

89 80.4 46.4 69.6#

182 2.4 1.8 2.6

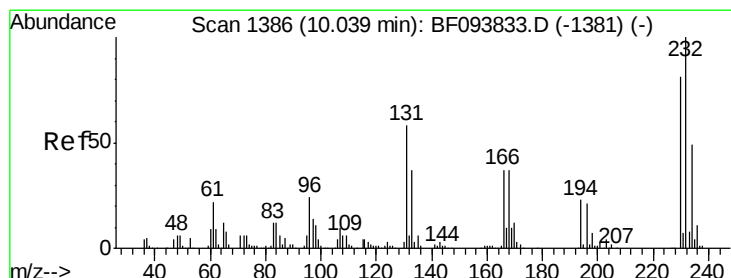
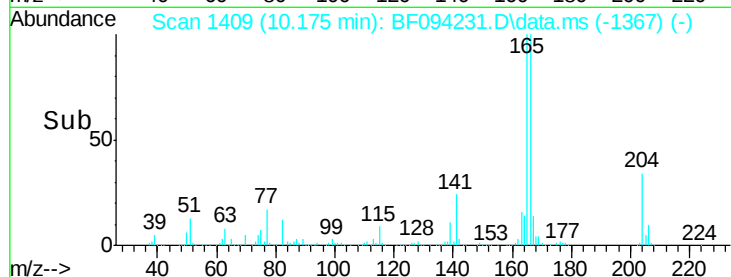
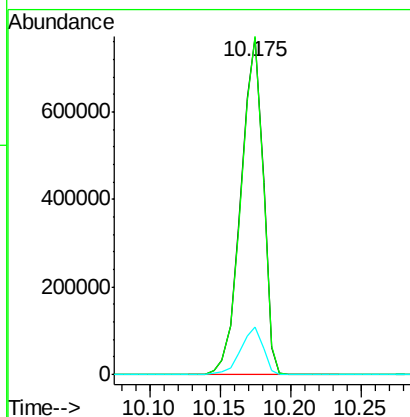
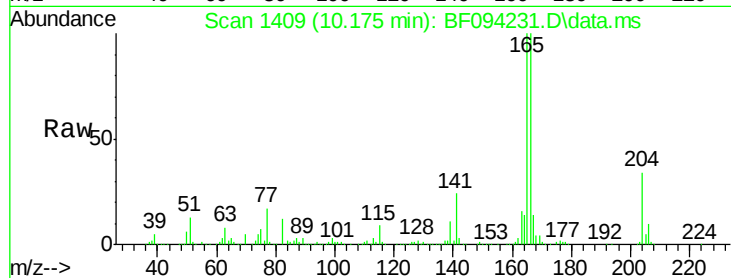




#57  
**Fluorene**  
 Concen: 38.42 ng  
 RT: 10.175 min Scan# 14  
 Delta R.T. -0.053 min  
 Lab File: BF094231.D  
 Acq: 6 Apr 2017 16:35

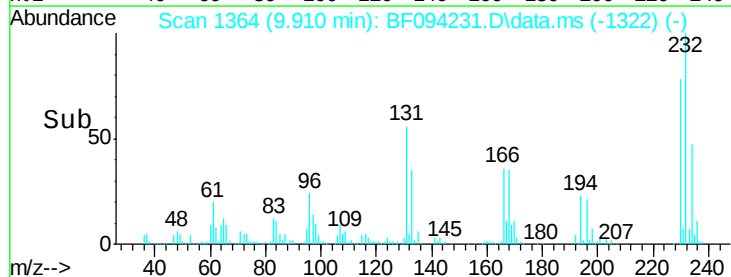
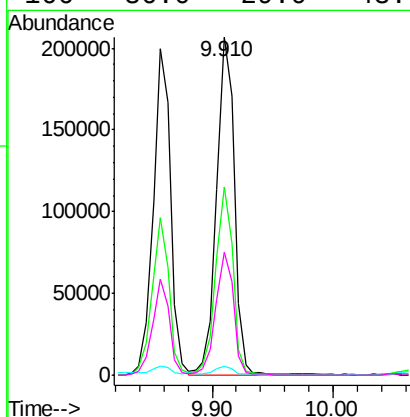
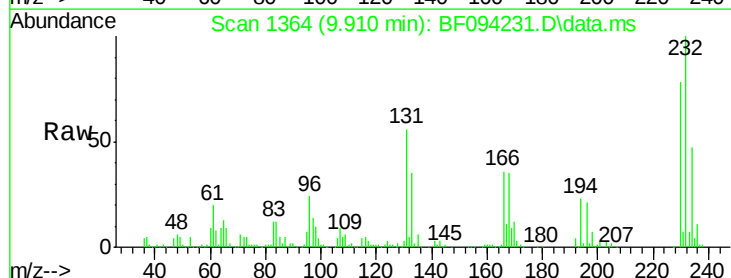
Instrument :  
 BNA\_F  
 ClientSampleId :  
 B4-(0-5)MSD

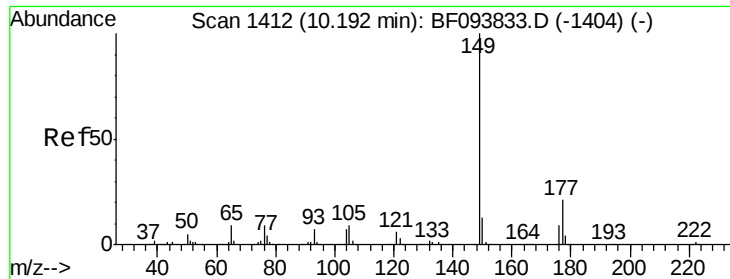
Tot Ion:166 Resp: 847609  
 Ion Ratio Lower Upper  
 166 100  
 165 100.2 78.8 118.2  
 167 14.1 10.6 16.0



#58  
**2,3,4,6-Tetrachlorophenol**  
 Concen: 45.95 ng  
 RT: 9.910 min Scan# 1364  
 Delta R.T. -0.053 min  
 Lab File: BF094231.D  
 Acq: 6 Apr 2017 16:35

Tgt Ion:232 Resp: 210754  
 Ion Ratio Lower Upper  
 232 100  
 131 53.9 44.8 67.2  
 130 3.2 2.3 3.5  
 166 36.0 29.0 43.4





#59

Diethylphthalate

Concen: 41.77 ng

RT: 10.063 min Scan# 13

Delta R.T. -0.047 min

Lab File: BF094231.D

Acq: 6 Apr 2017 16:35

Instrument :

BNA\_F

ClientSampleId :

B4-(0-5)MSD

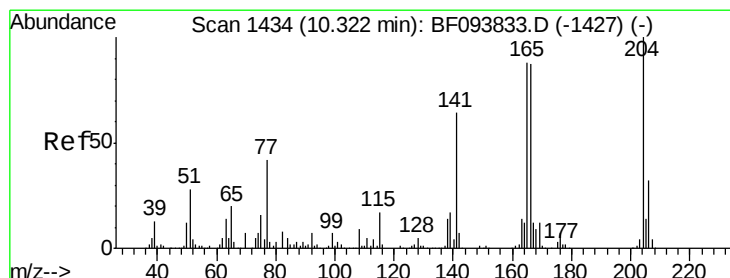
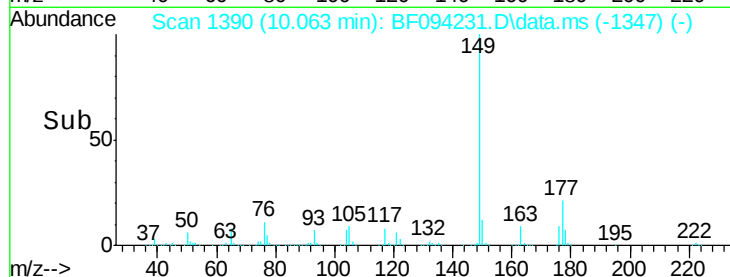
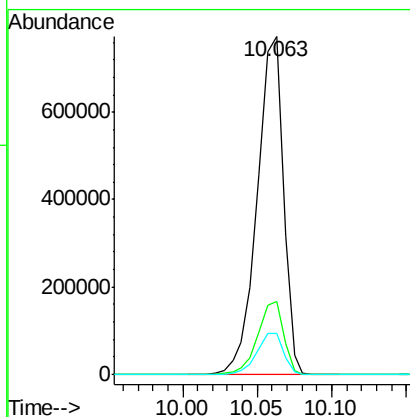
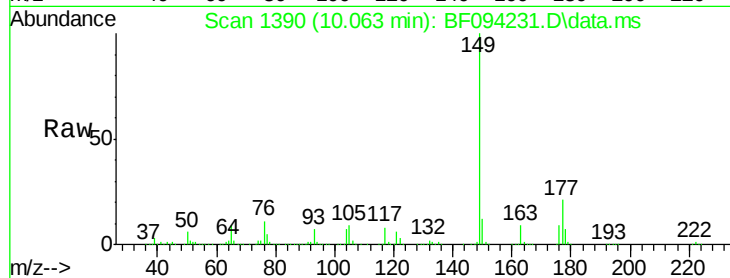
Tot Ion:149 Resp: 936635

Ion Ratio Lower Upper

149 100

177 21.5 16.7 25.1

150 12.3 10.2 15.2



#60

4-Chlorophenyl-phenylether

Concen: 38.63 ng

RT: 10.181 min Scan# 1410

Delta R.T. -0.053 min

Lab File: BF094231.D

Acq: 6 Apr 2017 16:35

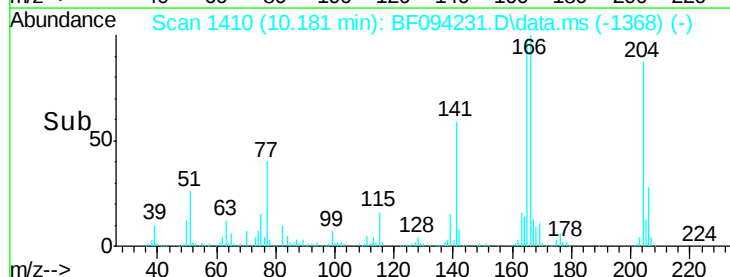
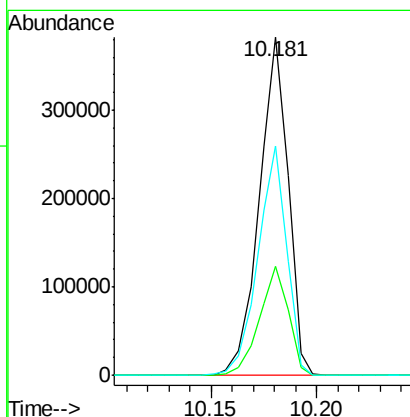
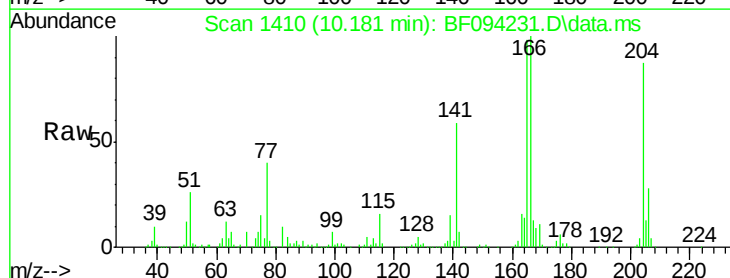
Tgt Ion:204 Resp: 363032

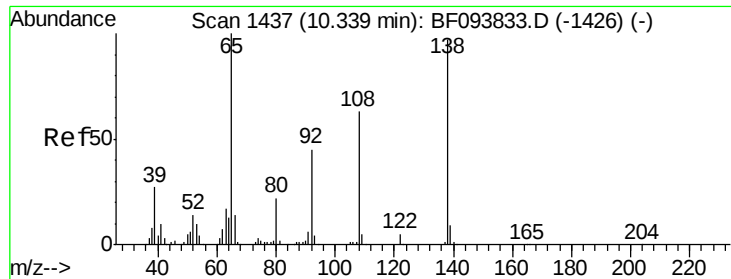
Ion Ratio Lower Upper

204 100

206 32.4 26.2 39.2

141 67.9 60.8 91.2





#61

4-Nitroaniline

Concen: 38.90 ng

RT: 10.216 min Scan# 1416

Delta R.T. -0.053 min

Lab File: BF094231.D

Acq: 6 Apr 2017 16:35

Instrument :

BNA\_F

ClientSampleId :

B4-(0-5)MSD

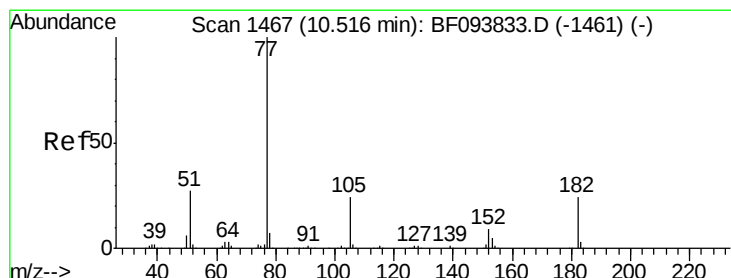
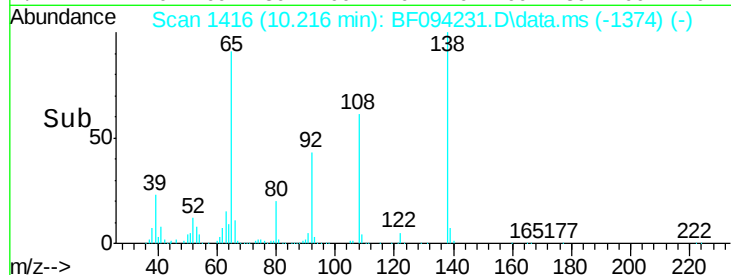
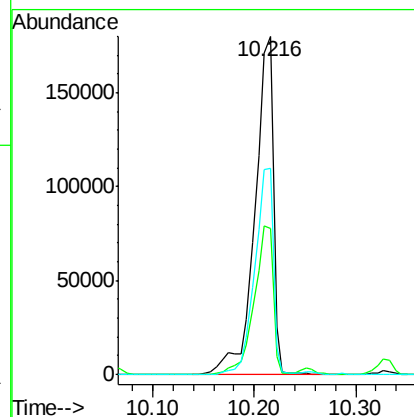
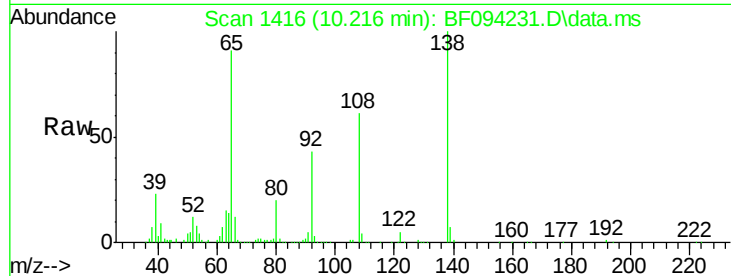
Tot Ion:138 Resp: 227946

Ion Ratio Lower Upper

138 100

92 43.1 21.8 61.8

108 60.9 42.3 82.3



#62

Azobenzene

Concen: 42.85 ng

RT: 10.375 min Scan# 1443

Delta R.T. -0.053 min

Lab File: BF094231.D

Acq: 6 Apr 2017 16:35

Tgt Ion: 77 Resp: 908798

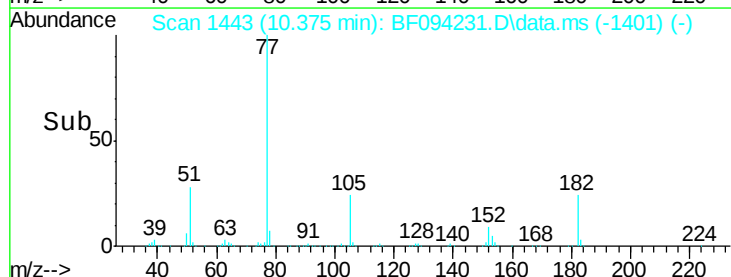
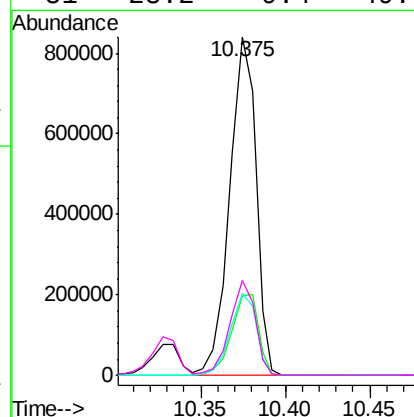
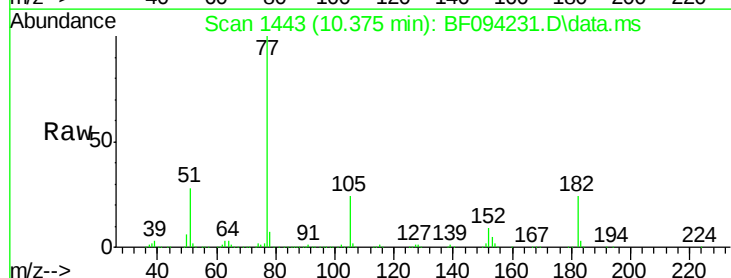
Ion Ratio Lower Upper

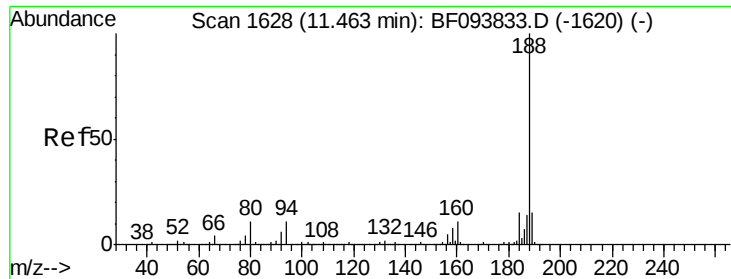
77 100

182 23.7 0.1 40.1

105 24.2 3.6 43.6

51 28.2 9.4 49.4

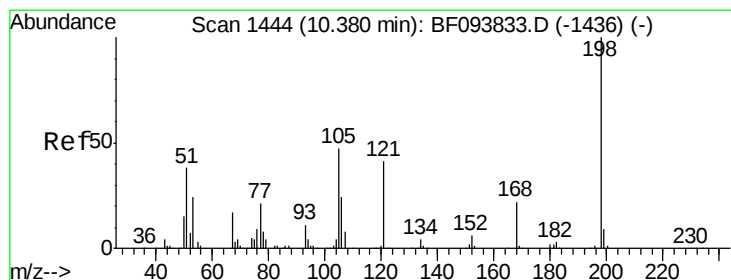
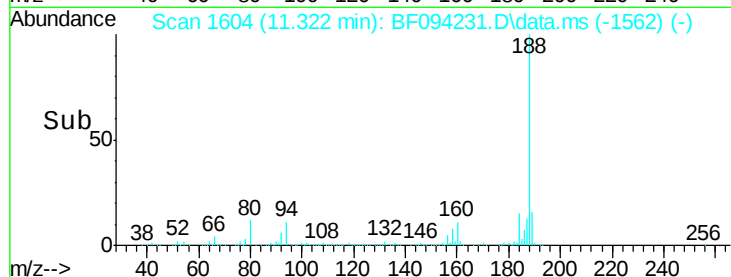
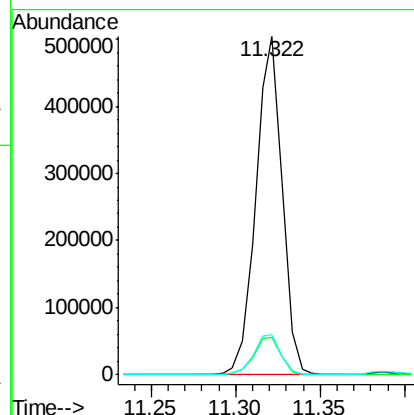
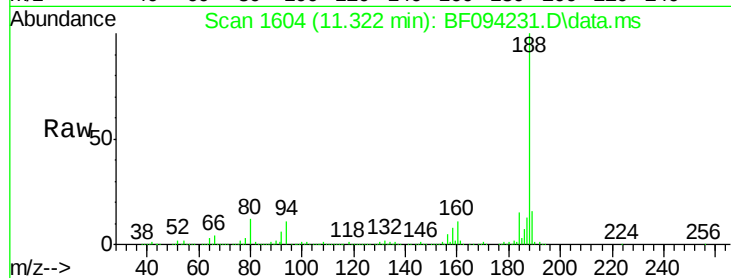




#63  
Phenanthrene-d10  
Concen: 20.00 ng  
RT: 11.322 min Scan# 16  
Delta R.T. -0.053 min  
Lab File: BF094231.D  
Acq: 6 Apr 2017 16:35

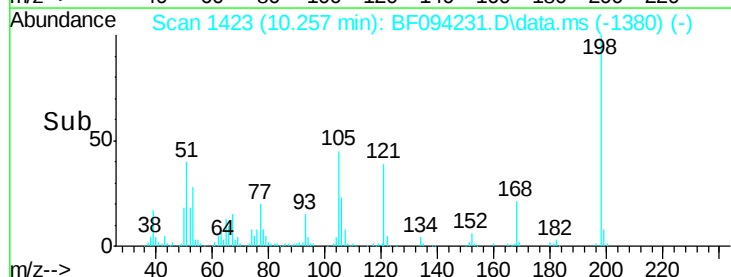
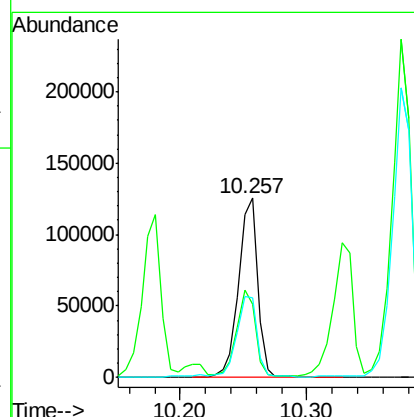
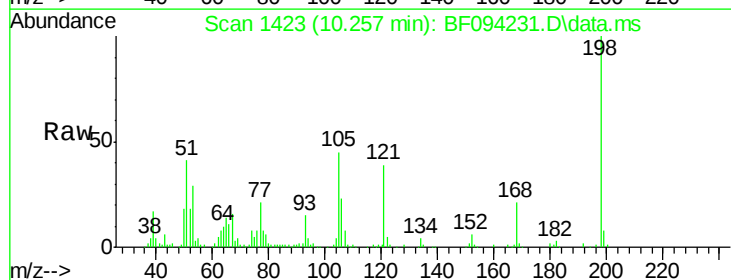
Instrument :  
BNA\_F  
ClientSampleId :  
B4-(0-5)MSD

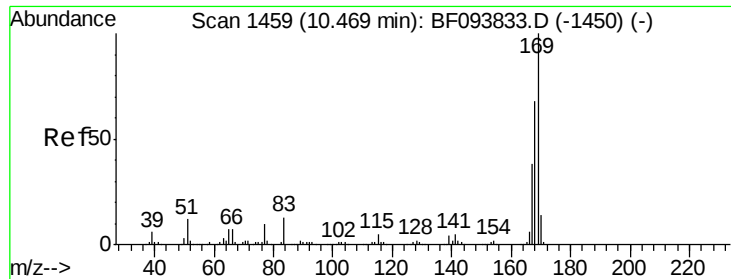
| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 188     | 100   |       |       |
| 94      | 10.9  | 9.4   | 14.2  |
| 80      | 11.7  | 10.2  | 15.2  |



#64  
4,6-Dinitro-2-methylphenol  
Concen: 38.83 ng  
RT: 10.257 min Scan# 1423  
Delta R.T. -0.047 min  
Lab File: BF094231.D  
Acq: 6 Apr 2017 16:35

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 198     | 100   |       |       |
| 51      | 40.6  | 53.2  | 93.2# |
| 105     | 44.5  | 45.8  | 85.8# |

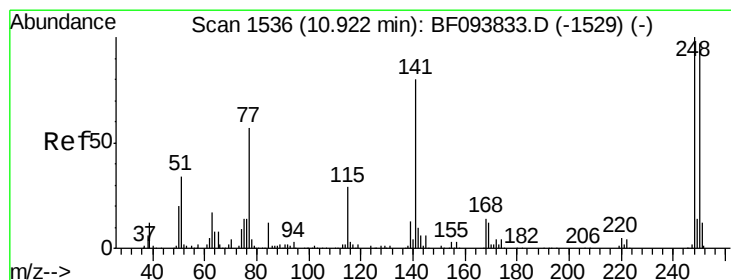
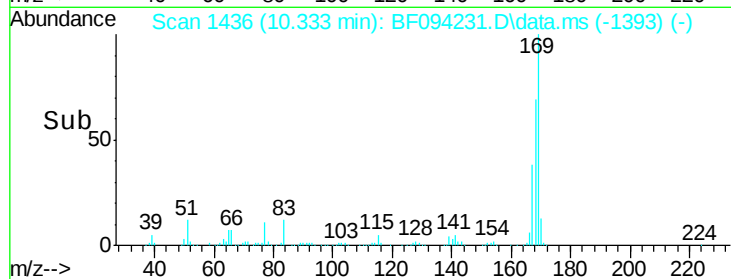
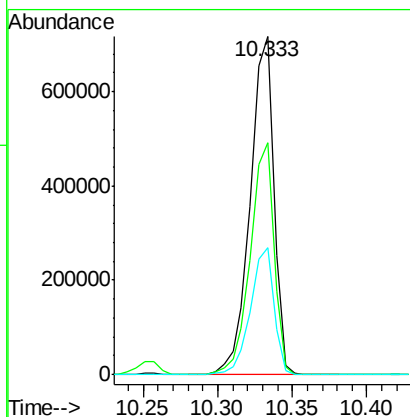
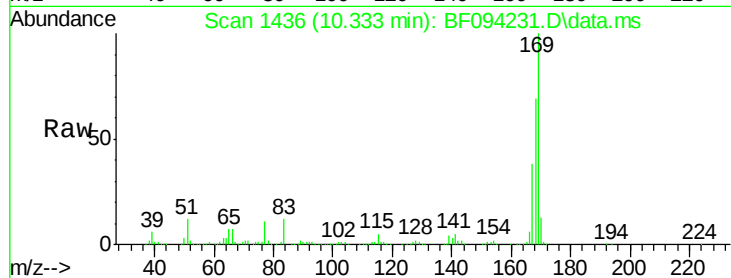




#65  
 n-Nitrosodiphenylamine  
 Concen: 41.62 ng  
 RT: 10.333 min Scan# 1459  
 Delta R.T. -0.047 min  
 Lab File: BF094231.D  
 Acq: 6 Apr 2017 16:35

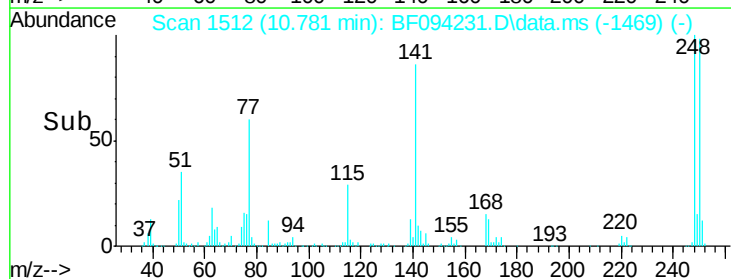
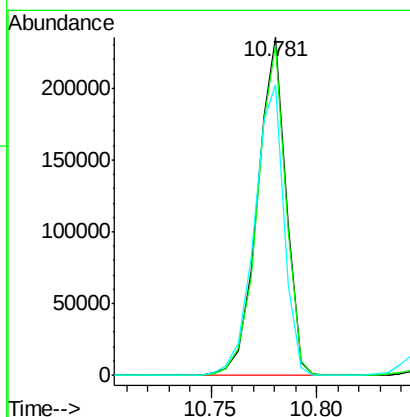
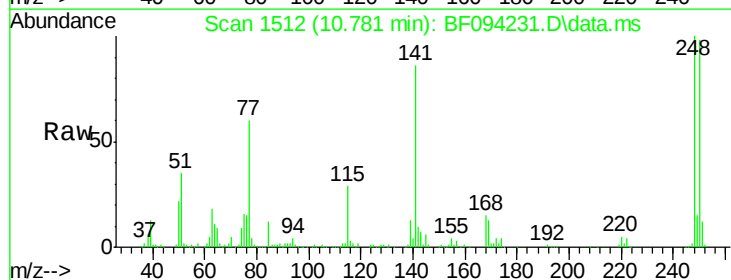
Instrument :  
 BNA\_F  
 ClientSampleId :  
 B4-(0-5)MSD

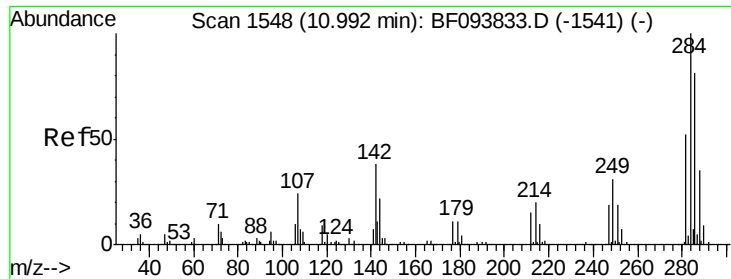
| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 169     | 100   |       |       |
| 168     | 68.8  | 53.2  | 79.8  |
| 167     | 37.7  | 29.5  | 44.3  |



#66  
 4-Bromophenyl-phenylether  
 Concen: 41.15 ng  
 RT: 10.781 min Scan# 1512  
 Delta R.T. -0.047 min  
 Lab File: BF094231.D  
 Acq: 6 Apr 2017 16:35

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 248     | 100   |       |       |
| 250     | 97.7  | 76.8  | 115.2 |
| 141     | 86.0  | 68.6  | 103.0 |

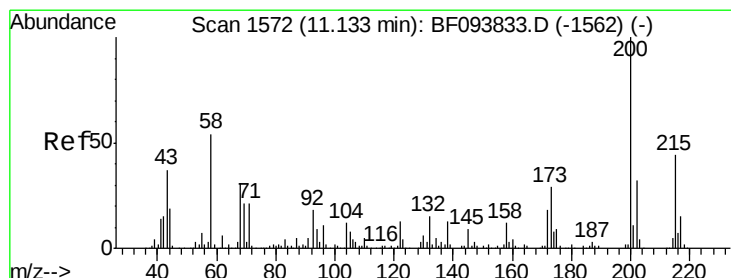
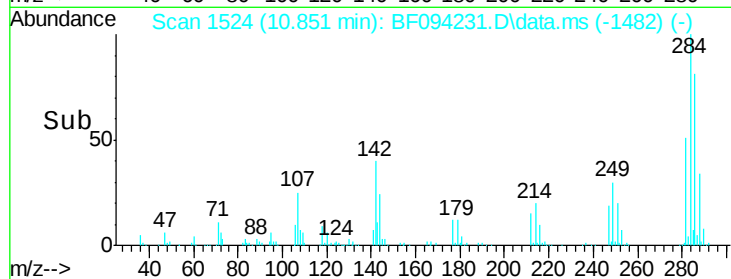
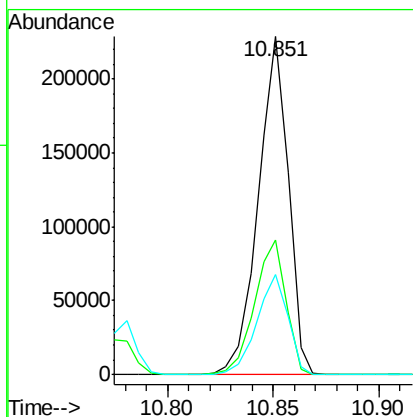
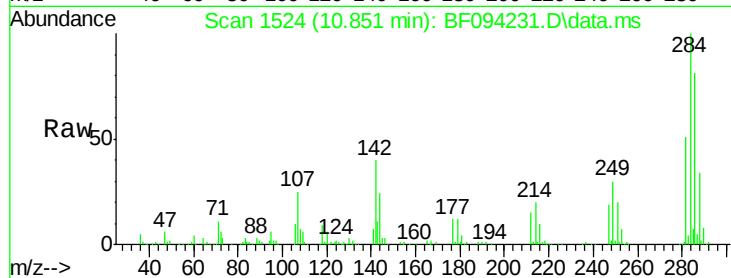




#67  
Hexachlorobenzene  
Concen: 41.60 ng  
RT: 10.851 min Scan# 1548  
Delta R.T. -0.053 min  
Lab File: BF094231.D  
Acq: 6 Apr 2017 16:35

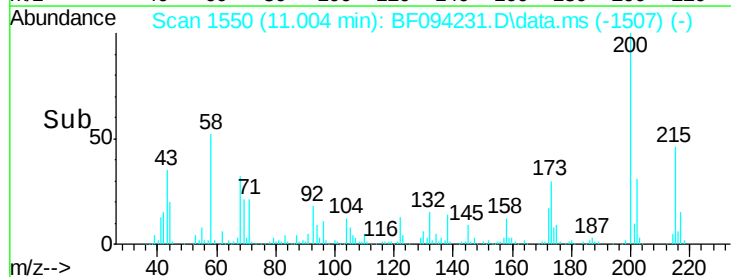
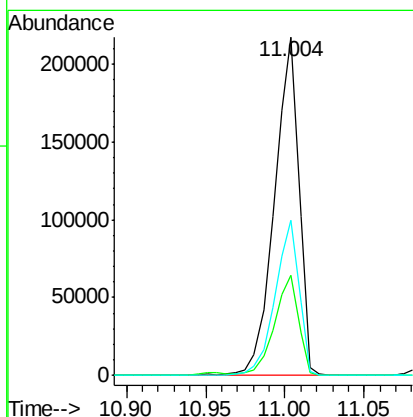
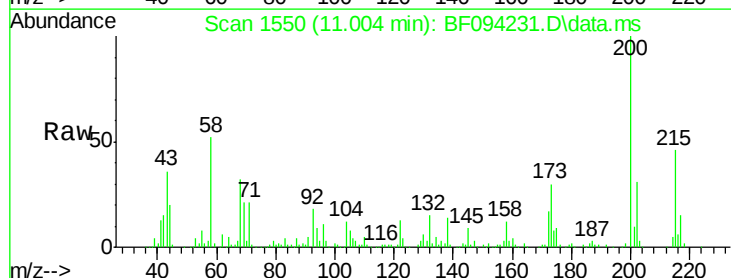
Instrument :  
BNA\_F  
ClientSampleId :  
B4-(0-5)MSD

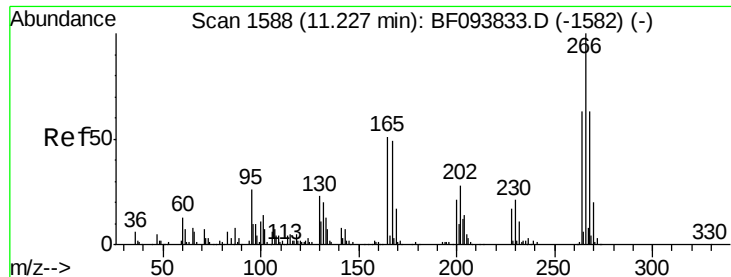
| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 284     | 100   |       |       |
| 142     | 39.7  | 22.8  | 34.2# |
| 249     | 29.7  | 24.0  | 36.0  |



#68  
Atrazine  
Concen: 41.14 ng  
RT: 11.004 min Scan# 1550  
Delta R.T. -0.047 min  
Lab File: BF094231.D  
Acq: 6 Apr 2017 16:35

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 200     | 100   |       |       |
| 173     | 29.7  | 6.3   | 46.3  |
| 215     | 45.7  | 27.2  | 67.2  |

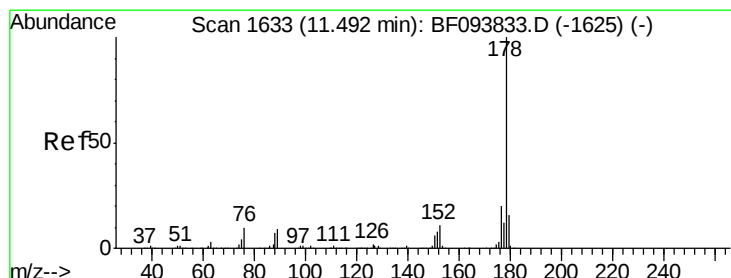
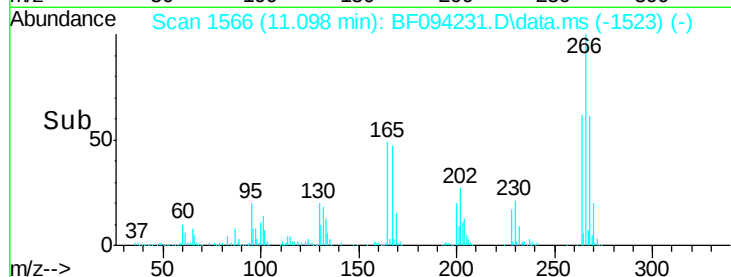
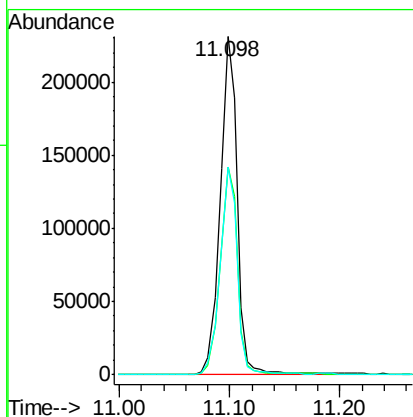
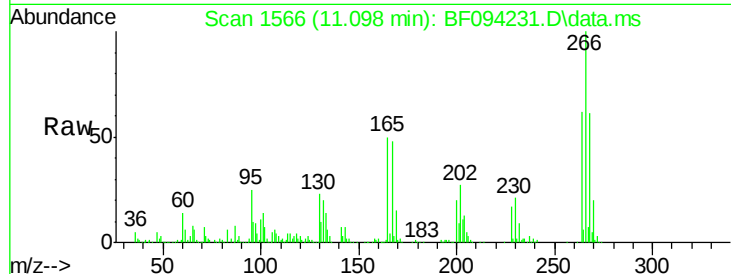




#69  
 Pentachlorophenol  
 Concen: 73.46 ng  
 RT: 11.098 min Scan# 15  
 Delta R.T. -0.047 min  
 Lab File: BF094231.D  
 Acq: 6 Apr 2017 16:35

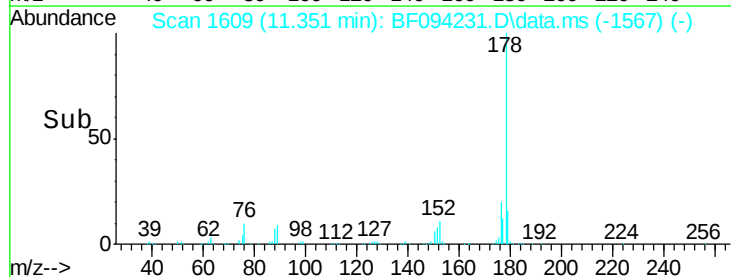
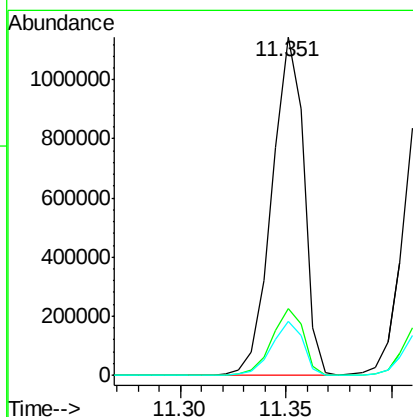
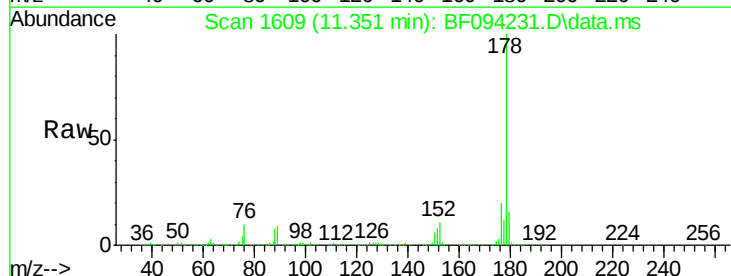
Instrument :  
 BNA\_F  
 ClientSampleId :  
 B4-(0-5)MSD

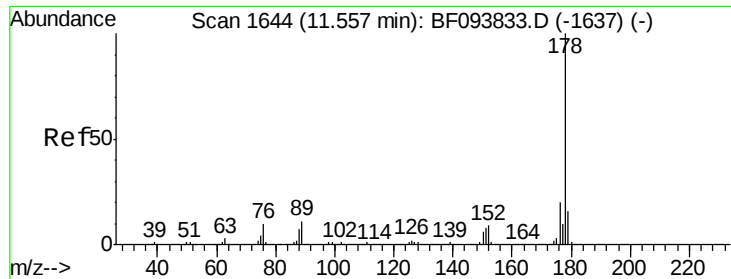
| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 266     | 100   |       |       |
| 268     | 61.2  | 51.1  | 76.7  |
| 264     | 61.6  | 51.7  | 77.5  |



#70  
 Phenanthrene  
 Concen: 39.68 ng  
 RT: 11.351 min Scan# 1609  
 Delta R.T. -0.053 min  
 Lab File: BF094231.D  
 Acq: 6 Apr 2017 16:35

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 178     | 100   |       |       |
| 176     | 19.7  | 16.2  | 24.4  |
| 179     | 15.9  | 12.6  | 19.0  |

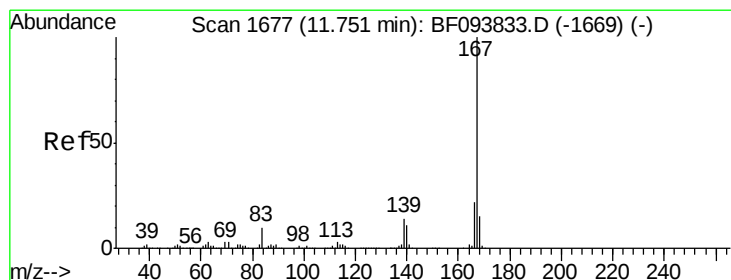
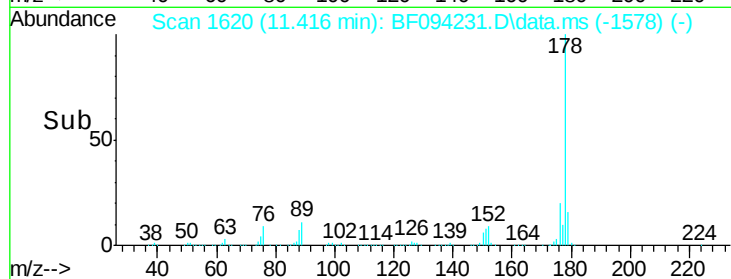
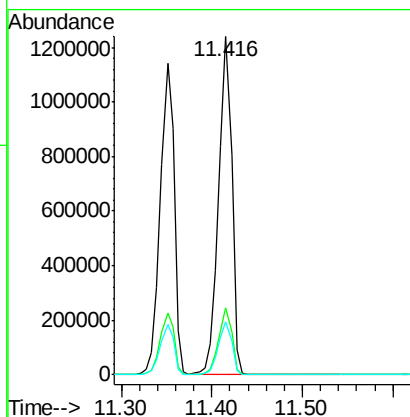
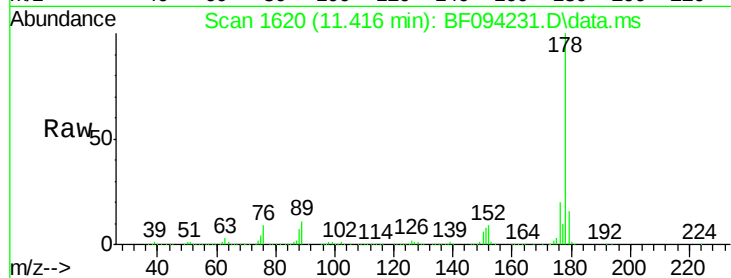




#71  
 Anthracene  
 Concen: 39.78 ng  
 RT: 11.416 min Scan# 1644  
 Delta R.T. -0.053 min  
 Lab File: BF094231.D  
 Acq: 6 Apr 2017 16:35

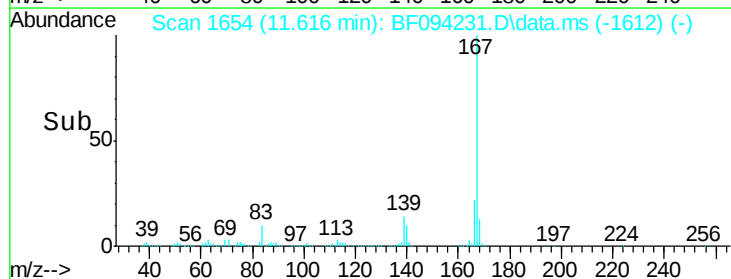
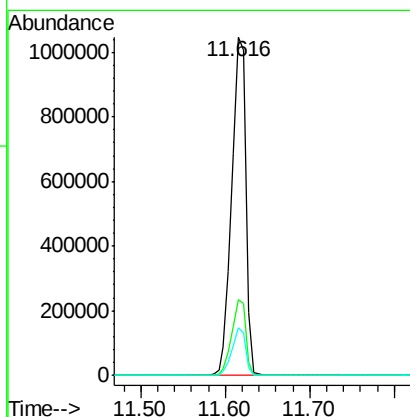
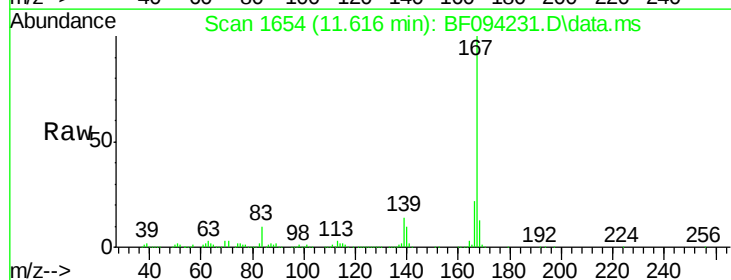
Instrument :  
 BNA\_F  
 ClientSampleId :  
 B4-(0-5)MSD

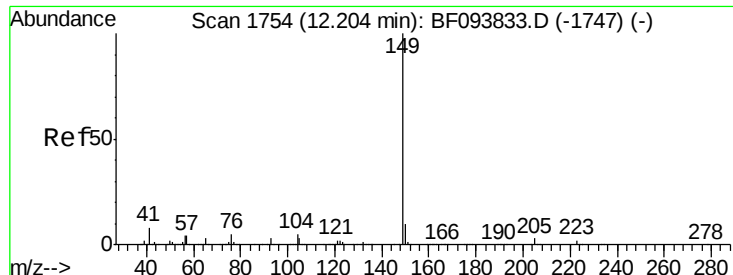
Tot Ion:178 Resp: 1244298  
 Ion Ratio Lower Upper  
 178 100  
 176 19.6 15.8 23.8  
 179 15.6 12.7 19.1



#72  
 Carbazole  
 Concen: 37.34 ng  
 RT: 11.616 min Scan# 1654  
 Delta R.T. -0.053 min  
 Lab File: BF094231.D  
 Acq: 6 Apr 2017 16:35

Tgt Ion:167 Resp: 1197531  
 Ion Ratio Lower Upper  
 167 100  
 166 22.2 18.1 27.1  
 139 13.9 11.7 17.5

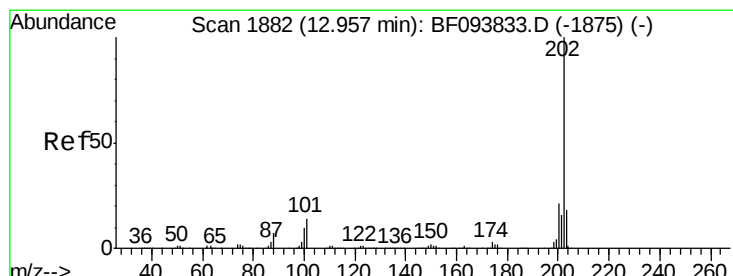
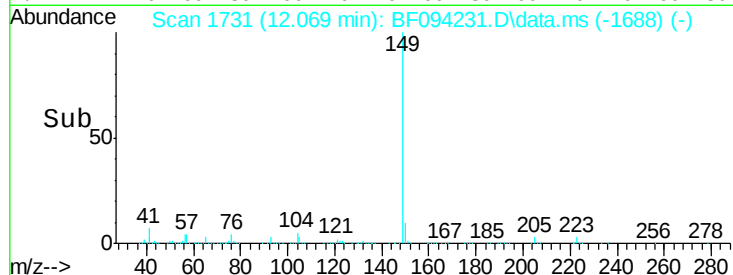
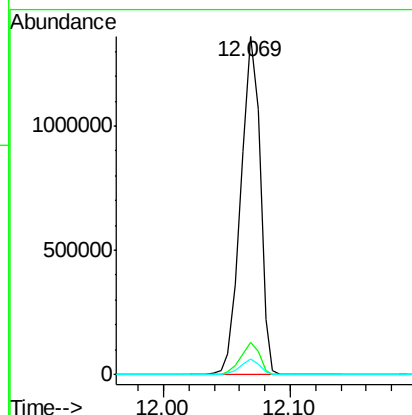
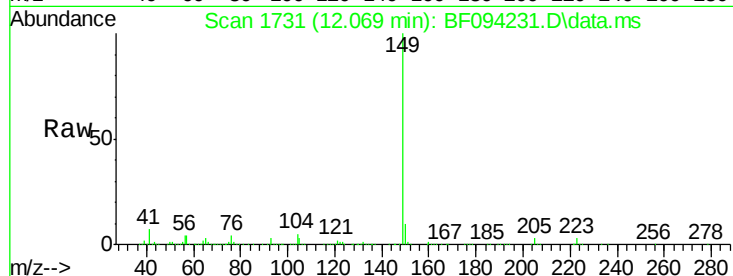




#73  
Di-n-butylphthalate  
Concen: 42.74 ng  
RT: 12.069 min Scan# 17  
Delta R.T. -0.047 min  
Lab File: BF094231.D  
Acq: 6 Apr 2017 16:35

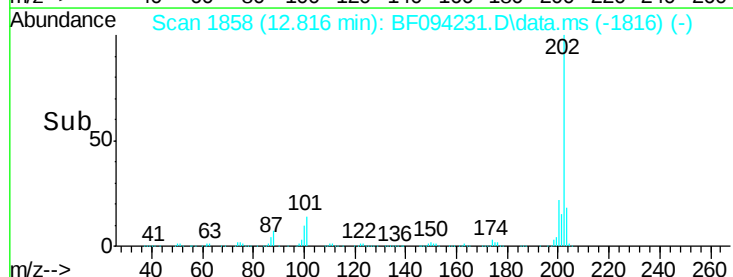
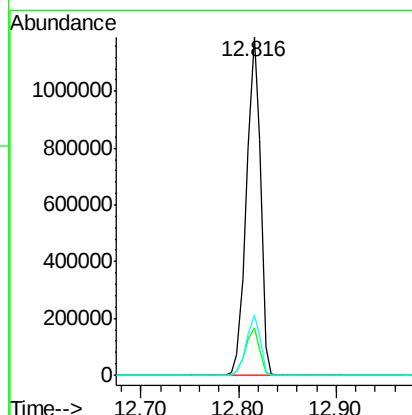
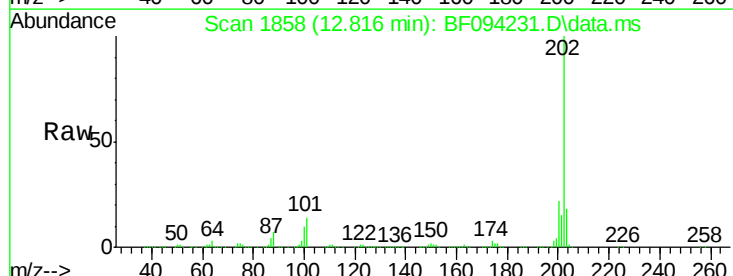
Instrument :  
BNA\_F  
ClientSampleId :  
B4-(0-5)MSD

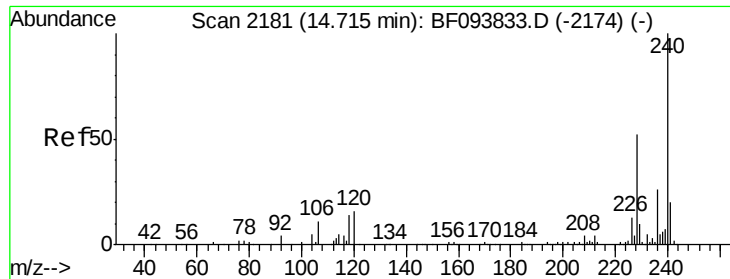
Tot Ion:149 Resp: 1425698  
Ion Ratio Lower Upper  
149 100  
150 9.5 7.7 11.5  
104 4.6 4.0 6.0



#74  
Fluoranthene  
Concen: 38.23 ng  
RT: 12.816 min Scan# 1858  
Delta R.T. -0.053 min  
Lab File: BF094231.D  
Acq: 6 Apr 2017 16:35

Tgt Ion:202 Resp: 1189251  
Ion Ratio Lower Upper  
202 100  
101 14.2 0.0 33.2  
203 17.7 0.0 38.1





#75

Chrysene-d12

Concen: 20.00 ng

RT: 14.574 min Scan# 21

Delta R.T. -0.053 min

Lab File: BF094231.D

Acq: 6 Apr 2017 16:35

Instrument :

BNA\_F

ClientSampleId :

B4-(0-5)MSD

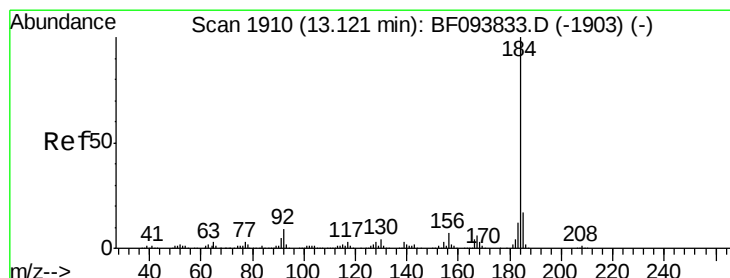
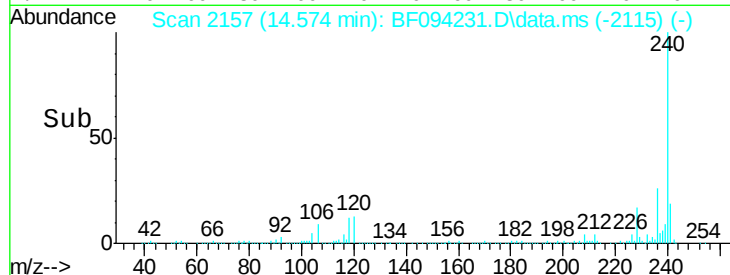
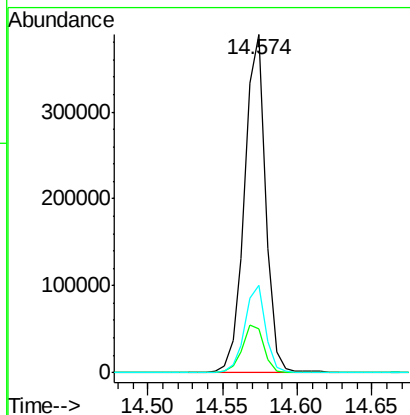
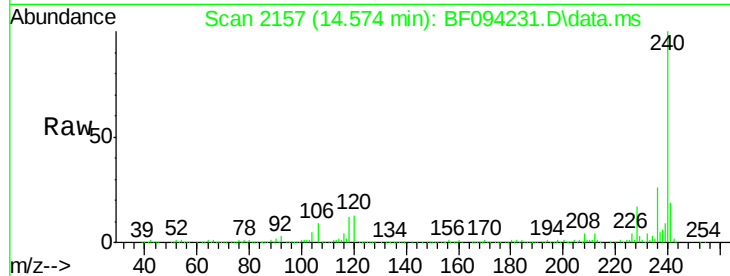
Tot Ion:240 Resp: 380177

Ion Ratio Lower Upper

240 100

120 13.0 5.8 8.8#

236 25.6 20.5 30.7



#76

Benzidine

Concen: 24.53 ng

RT: 12.980 min Scan# 1886

Delta R.T. -0.053 min

Lab File: BF094231.D

Acq: 6 Apr 2017 16:35

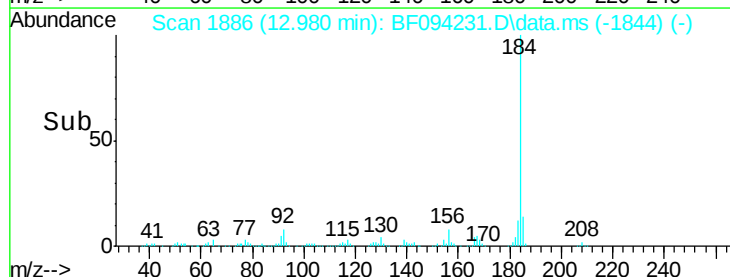
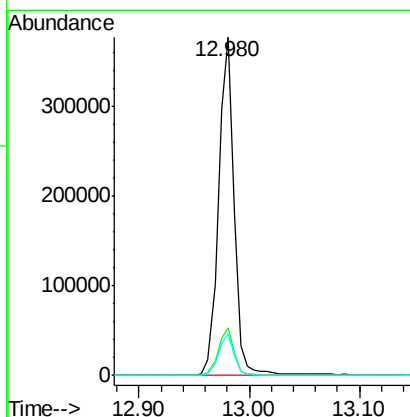
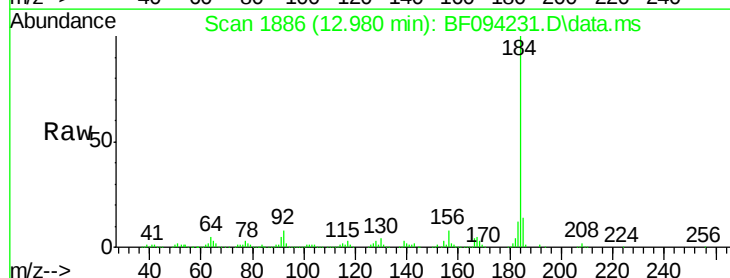
Tgt Ion:184 Resp: 369060

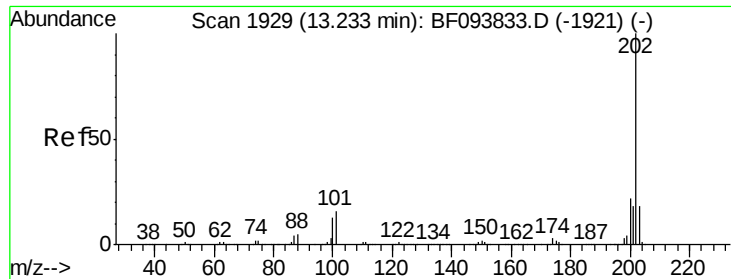
Ion Ratio Lower Upper

184 100

185 14.2 15.5 23.3#

183 12.3 9.8 14.6

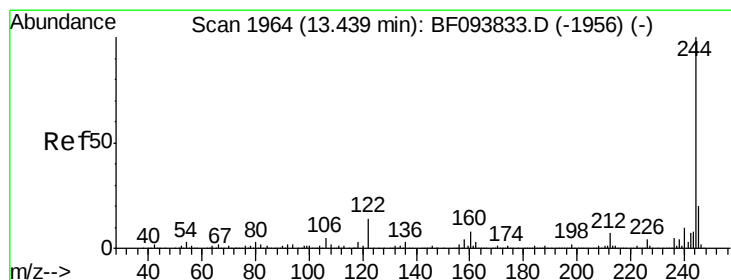
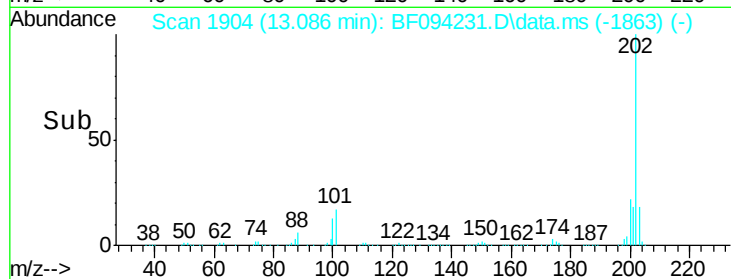
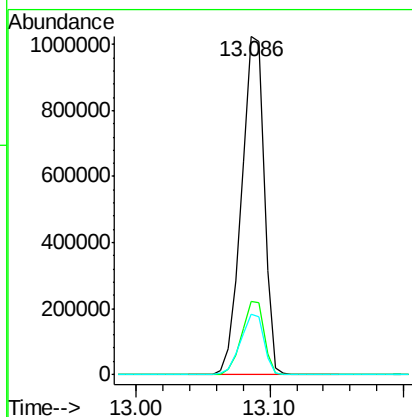
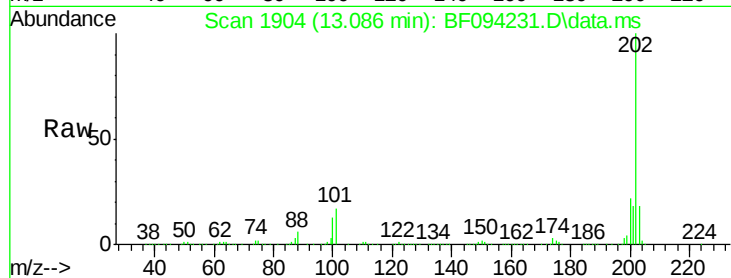




#77  
Pvrene  
Concen: 43.55 ng  
RT: 13.086 min Scan# 19  
Delta R.T. -0.059 min  
Lab File: BF094231.D  
Acq: 6 Apr 2017 16:35

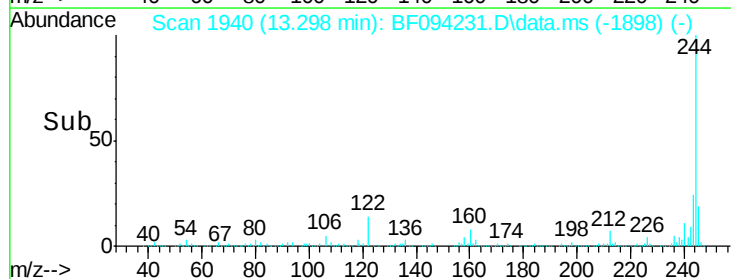
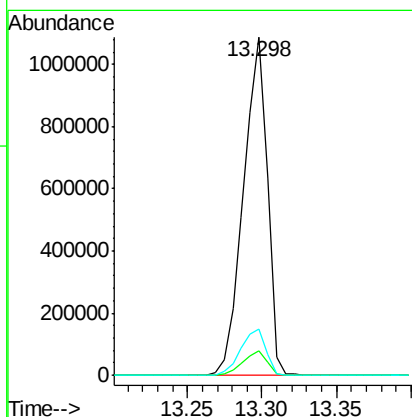
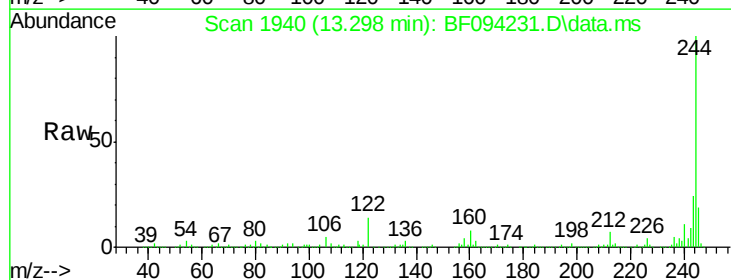
Instrument :  
BNA\_F  
ClientSampleId :  
B4-(0-5)MSD

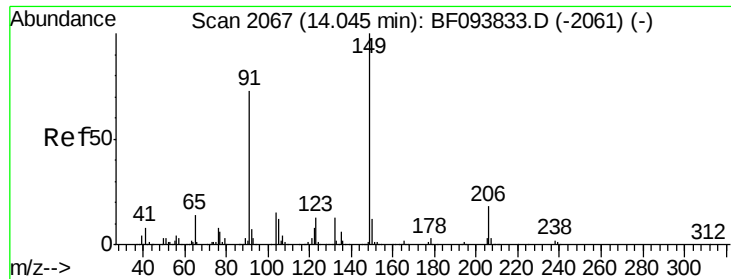
Tot Ion:202 Resp: 1201601  
Ion Ratio Lower Upper  
202 100  
200 21.6 17.6 26.4  
203 17.9 14.4 21.6



#78  
Terphenyl-d14  
Concen: 71.28 ng  
RT: 13.298 min Scan# 1940  
Delta R.T. -0.053 min  
Lab File: BF094231.D  
Acq: 6 Apr 2017 16:35

Tgt Ion:244 Resp: 1208897  
Ion Ratio Lower Upper  
244 100  
212 7.1 6.0 9.0  
122 13.8 10.3 15.5

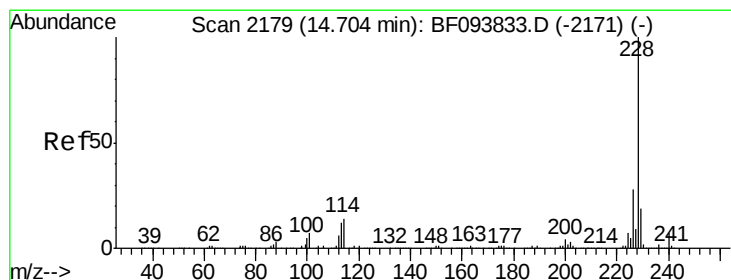
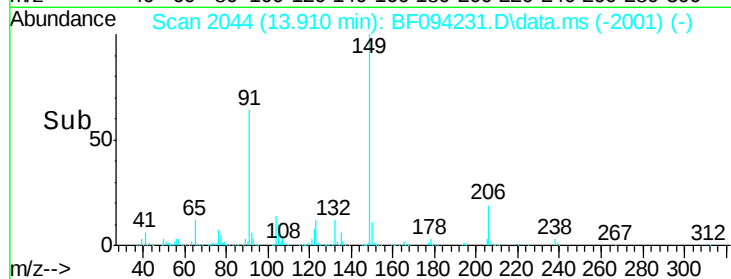
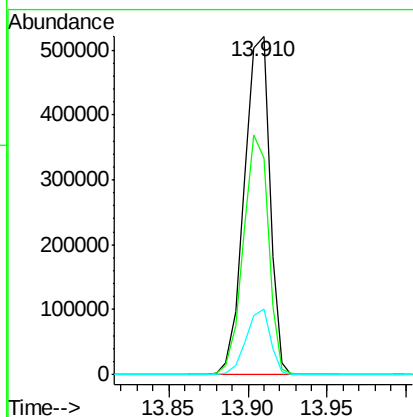
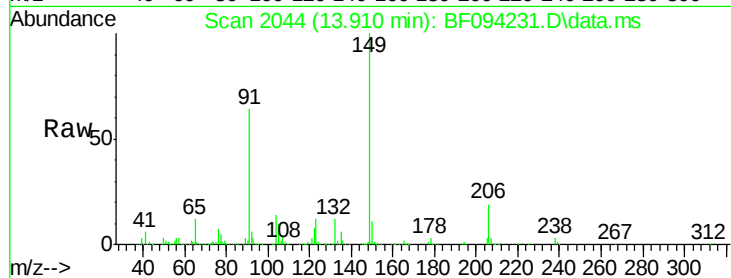




#79  
Butylbenzylphthalate  
Concen: 49.52 ng  
RT: 13.910 min Scan# 2067  
Delta R.T. -0.047 min  
Lab File: BF094231.D  
Acq: 6 Apr 2017 16:35

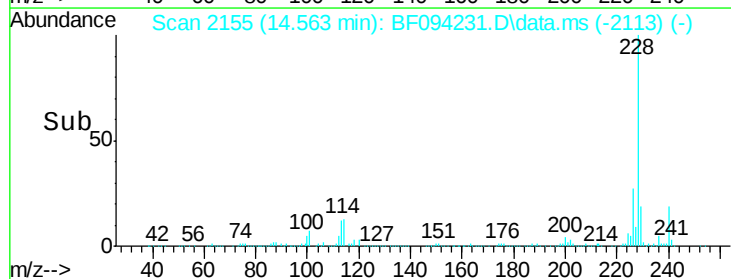
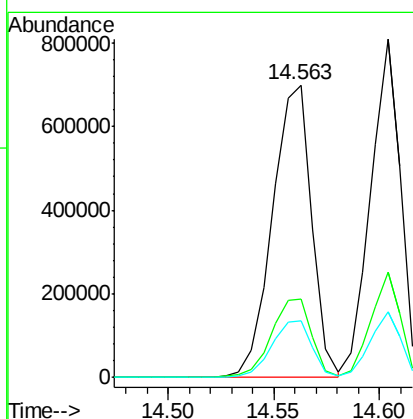
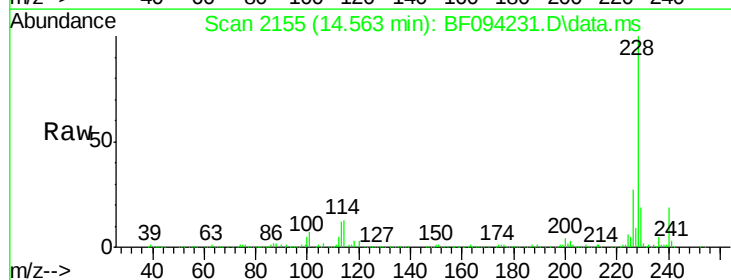
Instrument :  
BNA\_F  
ClientSampleId :  
B4-(0-5)MSD

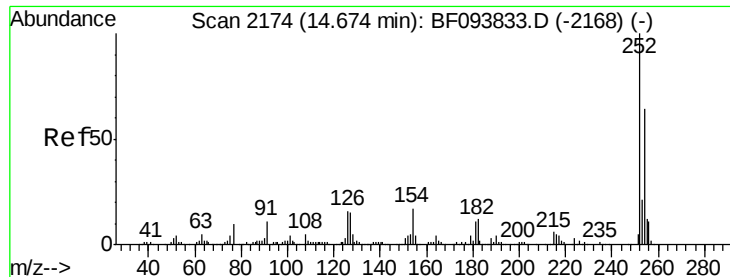
| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 149     | 100   |       |       |
| 91      | 64.2  | 45.0  | 67.4  |
| 206     | 19.4  | 17.0  | 25.6  |



#80  
Benzo(a)anthracene  
Concen: 40.78 ng  
RT: 14.563 min Scan# 2155  
Delta R.T. -0.053 min  
Lab File: BF094231.D  
Acq: 6 Apr 2017 16:35

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 228     | 100   |       |       |
| 226     | 26.8  | 22.6  | 33.8  |
| 229     | 19.3  | 16.3  | 24.5  |

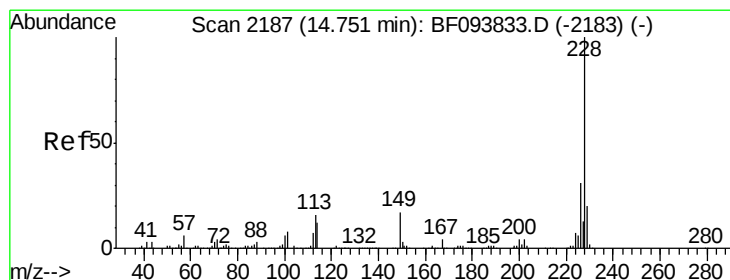
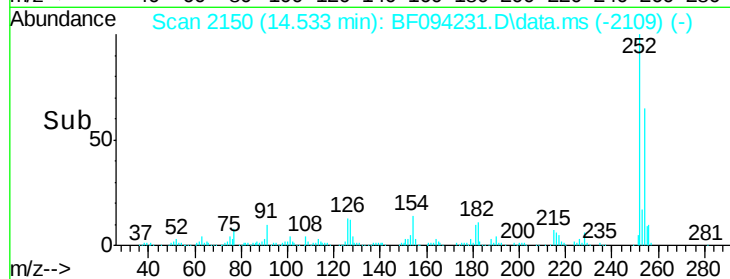
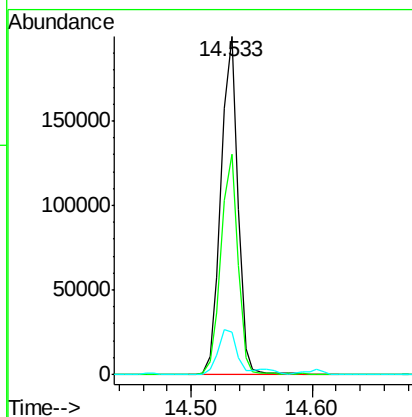
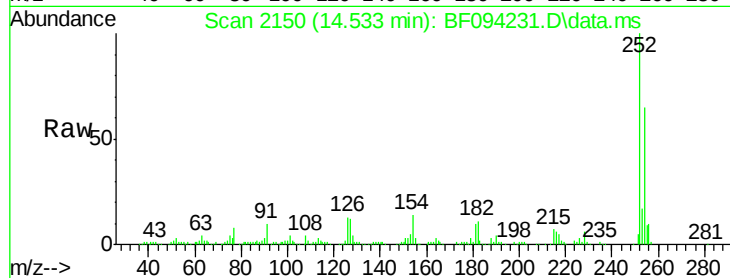




#81  
 3,3'-Dichlorobenzidine  
 Concen: 24.51 ng  
 RT: 14.533 min Scan# 2174  
 Delta R.T. -0.059 min  
 Lab File: BF094231.D  
 Acq: 6 Apr 2017 16:35

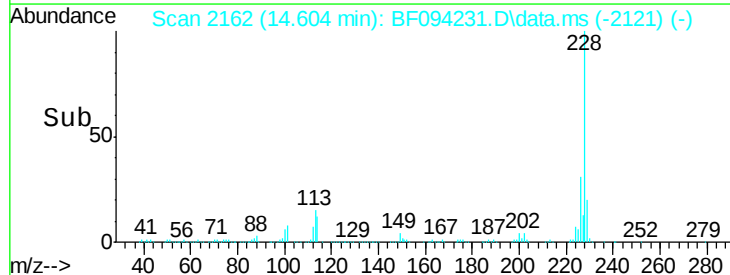
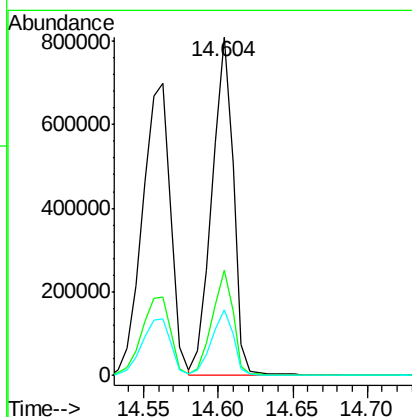
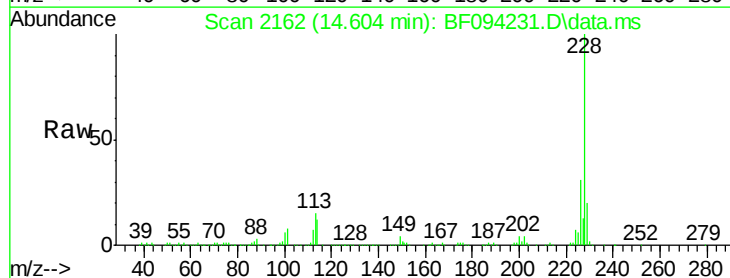
Instrument :  
 BNA\_F  
 ClientSampleId :  
 B4-(0-5)MSD

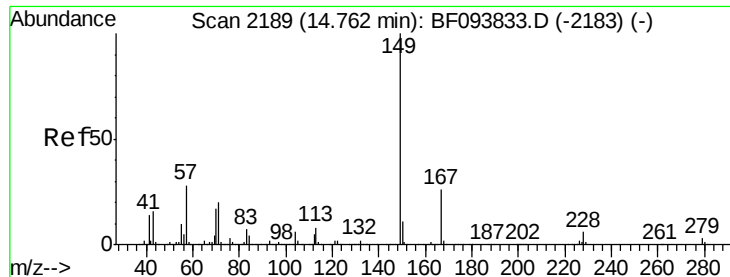
| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 252     | 100   |       |       |
| 254     | 65.1  | 51.5  | 77.3  |
| 126     | 12.7  | 15.8  | 23.8# |



#82  
 Chrysene  
 Concen: 39.12 ng  
 RT: 14.604 min Scan# 2162  
 Delta R.T. -0.059 min  
 Lab File: BF094231.D  
 Acq: 6 Apr 2017 16:35

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 228     | 100   |       |       |
| 226     | 31.3  | 24.9  | 37.3  |
| 229     | 19.5  | 15.8  | 23.6  |

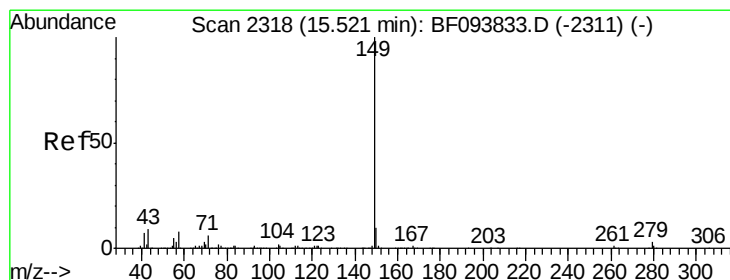
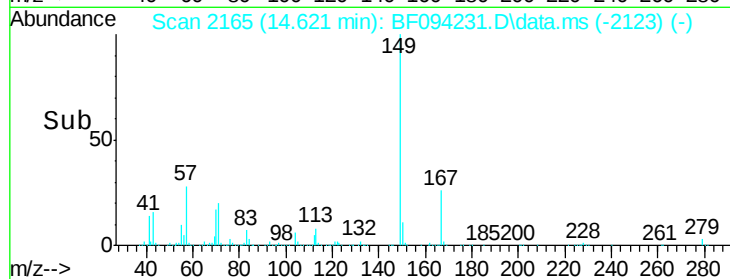
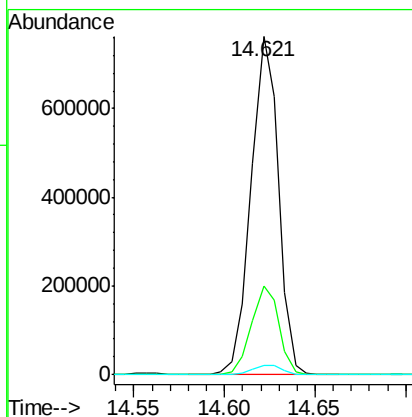
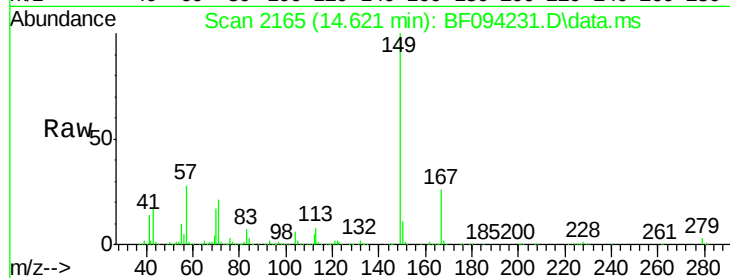




#83  
 Bis(2-ethylhexyl)phthalate  
 Concen: 50.00 ng  
 RT: 14.621 min Scan# 21  
 Delta R.T. -0.053 min  
 Lab File: BF094231.D  
 Acq: 6 Apr 2017 16:35

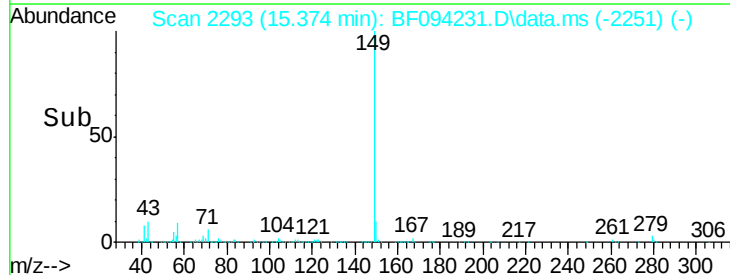
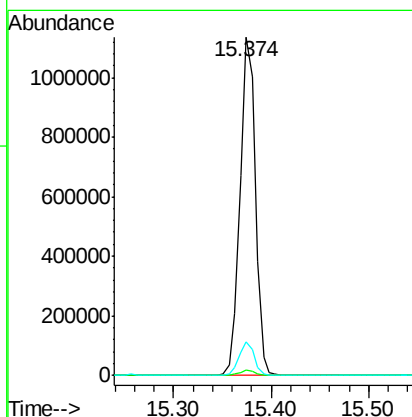
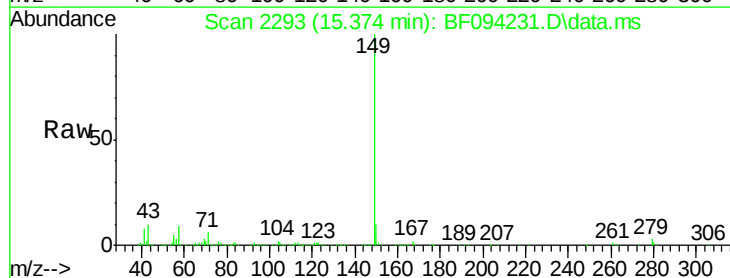
Instrument :  
 BNA\_F  
 ClientSampleId :  
 B4-(0-5)MSD

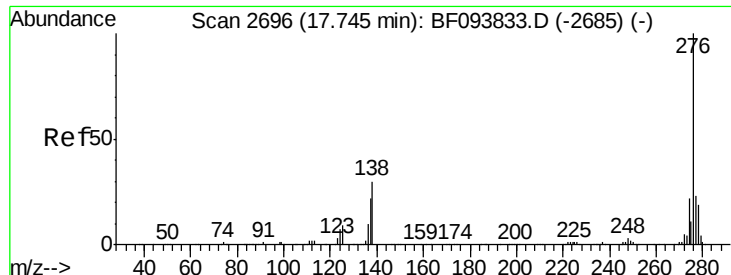
| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 149     | 100   |       |       |
| 167     | 26.3  | 21.0  | 31.4  |
| 279     | 2.8   | 1.9   | 2.9   |



#84  
 Di-n-octyl phthalate  
 Concen: 46.44 ng  
 RT: 15.374 min Scan# 2293  
 Delta R.T. -0.053 min  
 Lab File: BF094231.D  
 Acq: 6 Apr 2017 16:35

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 149     | 100   |       |       |
| 167     | 1.6   | 1.2   | 1.8   |
| 43      | 9.7   | 8.5   | 12.7  |





#85

Indeno(1,2,3-cd)pyrene

Concen: 39.40 ng

RT: 17.521 min Scan# 26

Delta R.T. -0.088 min

Lab File: BF094231.D

Acq: 6 Apr 2017 16:35

Instrument :

BNA\_F

ClientSampleId :

B4-(0-5)MSD

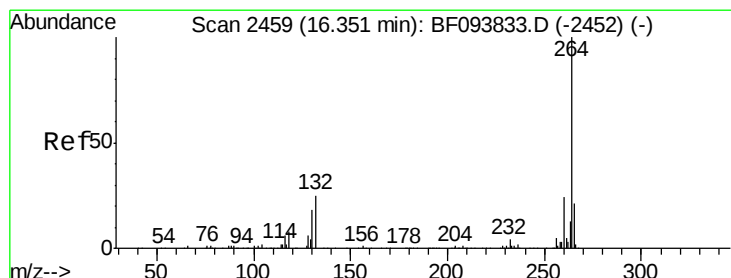
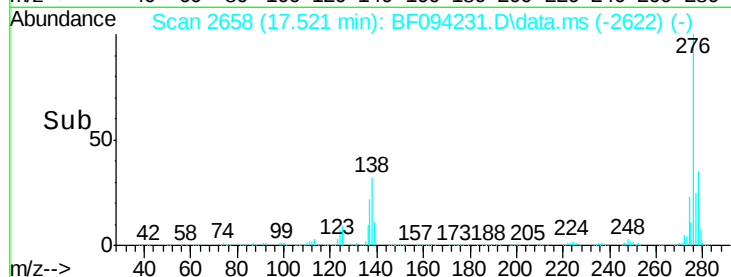
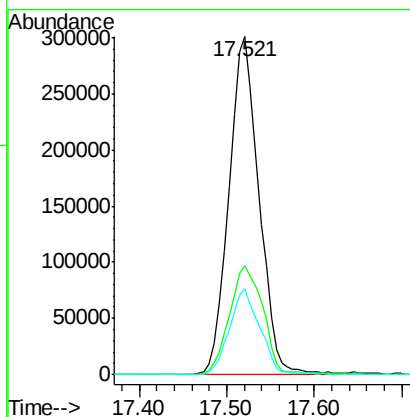
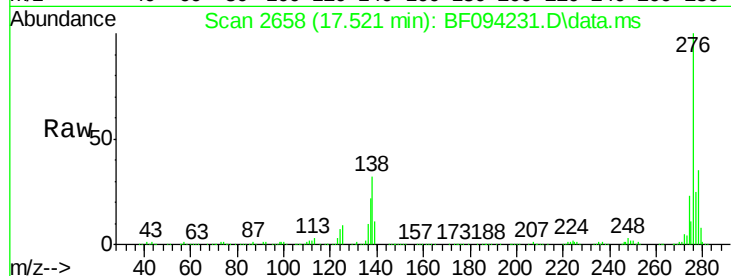
Tot Ion:276 Resp: 702029

Ion Ratio Lower Upper

276 100

138 36.0 27.8 41.6

277 25.5 20.2 30.4



#86

Perylene-d12

Concen: 20.00 ng

RT: 16.192 min Scan# 2432

Delta R.T. -0.059 min

Lab File: BF094231.D

Acq: 6 Apr 2017 16:35

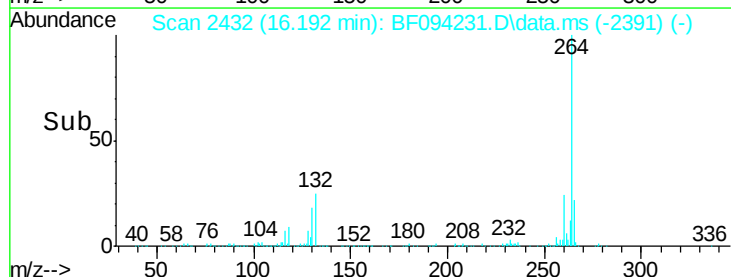
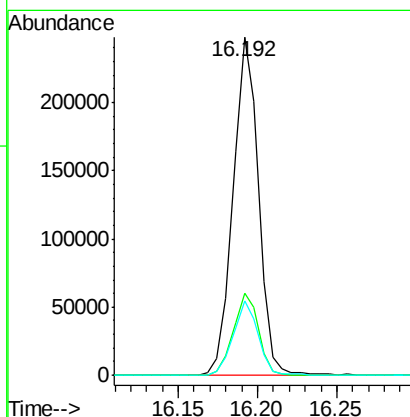
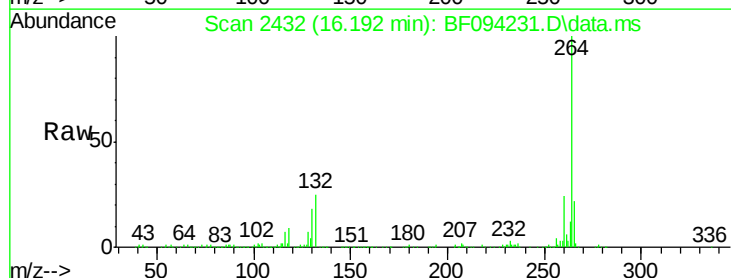
Tgt Ion:264 Resp: 274035

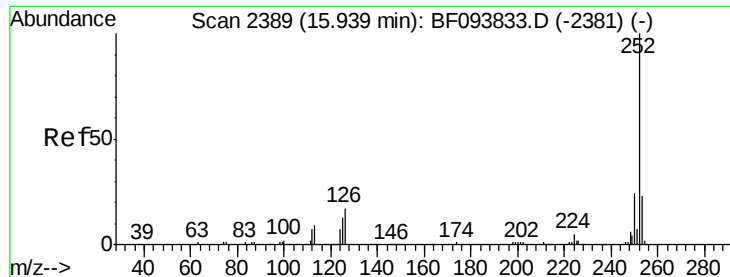
Ion Ratio Lower Upper

264 100

260 24.4 19.5 29.3

265 22.0 17.2 25.8

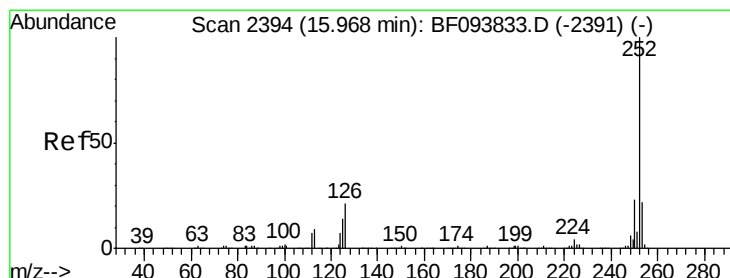
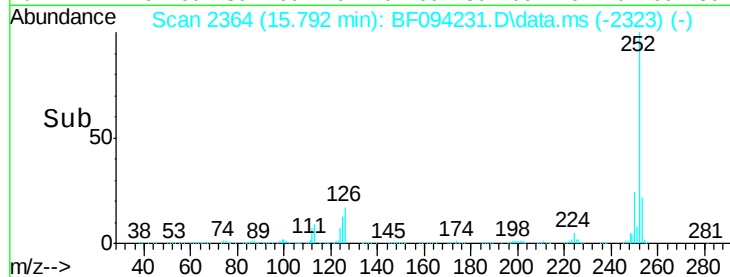
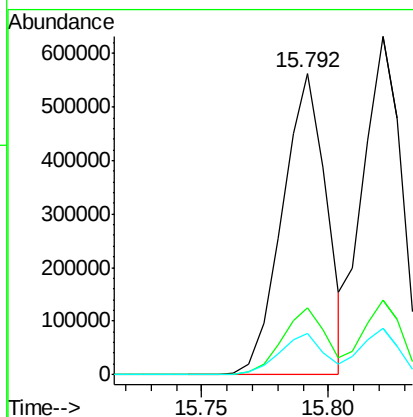
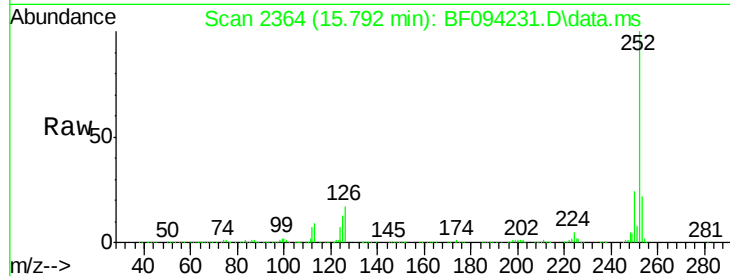




#87  
Benzo(b)fluoranthene  
Concen: 40.42 ng  
RT: 15.792 min Scan# 2364  
Delta R.T. -0.059 min  
Lab File: BF094231.D  
Acq: 6 Apr 2017 16:35

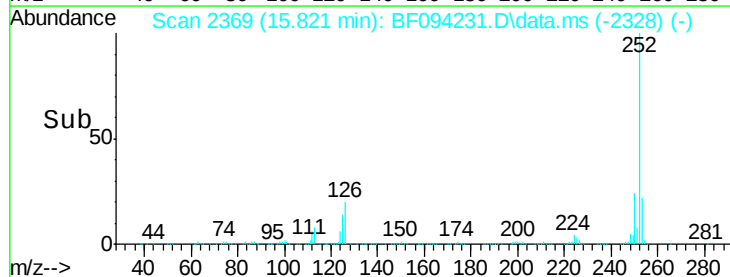
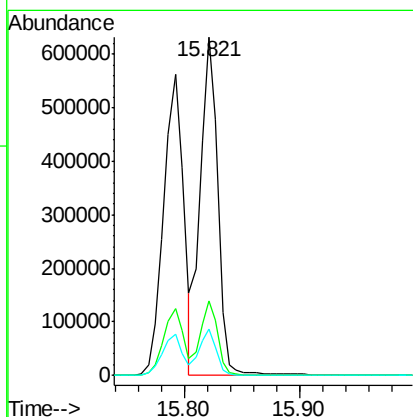
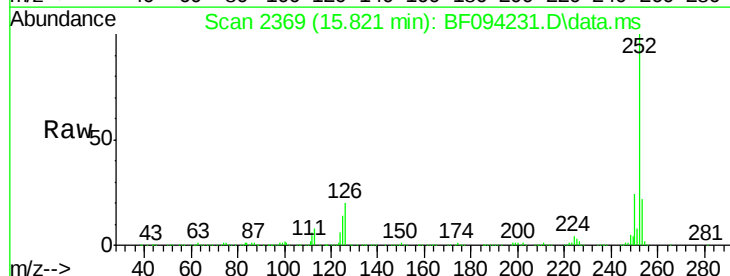
Instrument :  
BNA\_F  
ClientSampleId :  
B4-(0-5)MSD

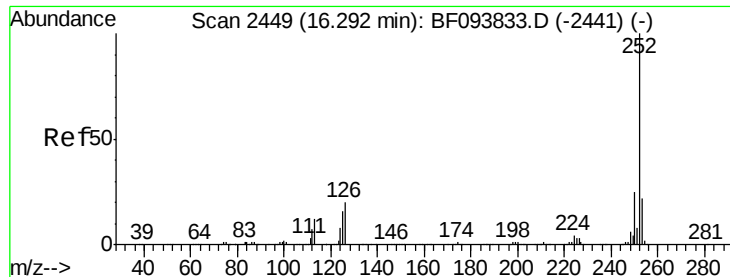
Tot Ion:252 Resp: 679007  
Ion Ratio Lower Upper  
252 100  
253 22.1 18.1 27.1  
125 13.4 9.8 14.8



#88  
Benzo(k)fluoranthene  
Concen: 41.21 ng  
RT: 15.821 min Scan# 2369  
Delta R.T. -0.059 min  
Lab File: BF094231.D  
Acq: 6 Apr 2017 16:35

Tgt Ion:252 Resp: 677212  
Ion Ratio Lower Upper  
252 100  
253 22.0 18.4 27.6  
125 13.7 13.1 19.7





#89

Benzo(a)pyrene

Concen: 40.83 ng

RT: 16.139 min Scan# 24

Delta R.T. -0.059 min

Lab File: BF094231.D

Acq: 6 Apr 2017 16:35

Instrument :

BNA\_F

ClientSampleId :

B4-(0-5)MSD

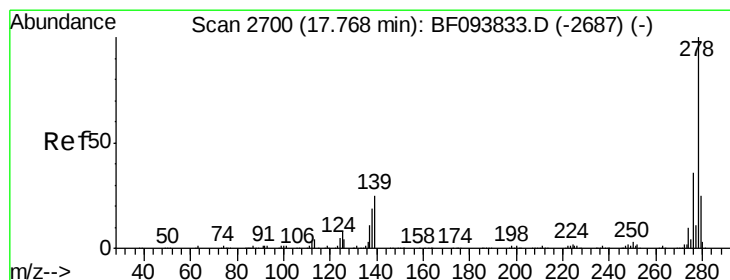
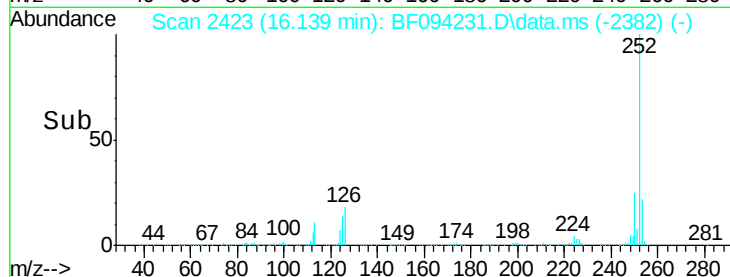
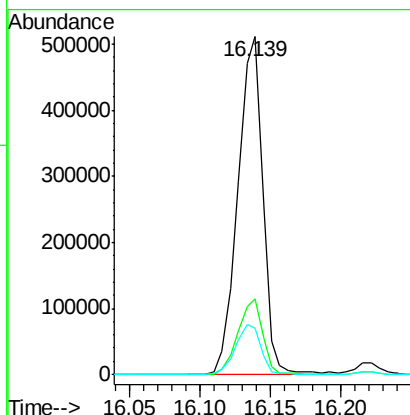
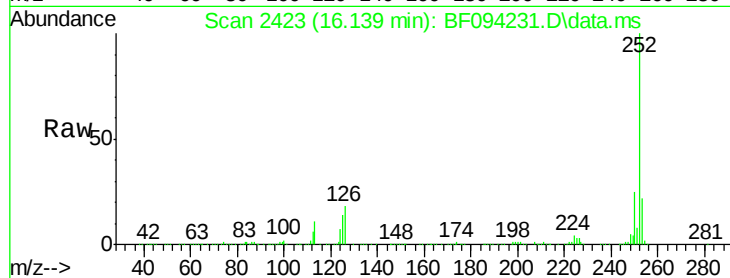
Tot Ion:252 Resp: 631537

Ion Ratio Lower Upper

252 100

253 22.4 17.5 26.3

125 13.8 11.0 16.4



#90

Dibenzo(a,h)anthracene

Concen: 44.10 ng

RT: 17.539 min Scan# 2661

Delta R.T. -0.094 min

Lab File: BF094231.D

Acq: 6 Apr 2017 16:35

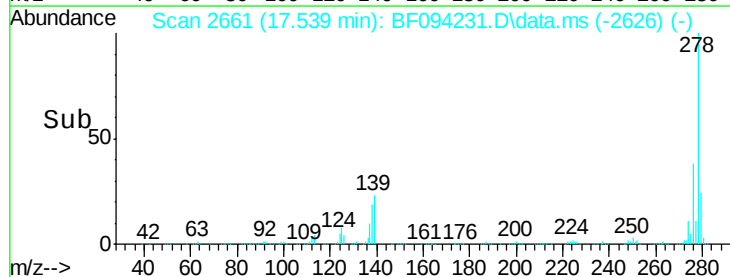
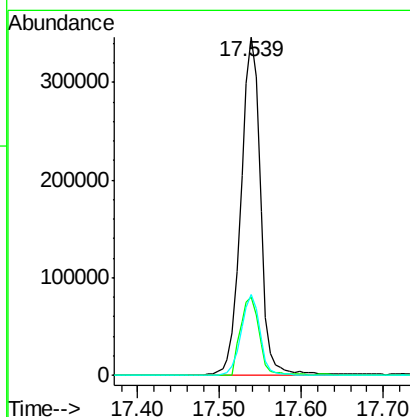
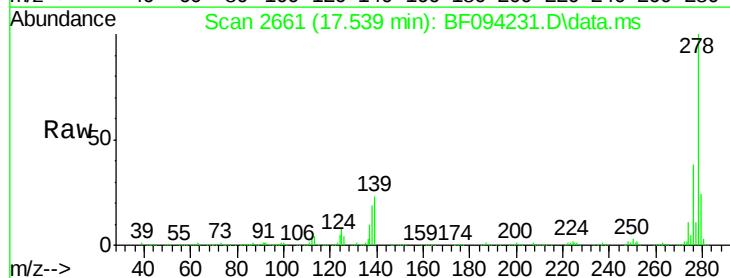
Tgt Ion:278 Resp: 577760

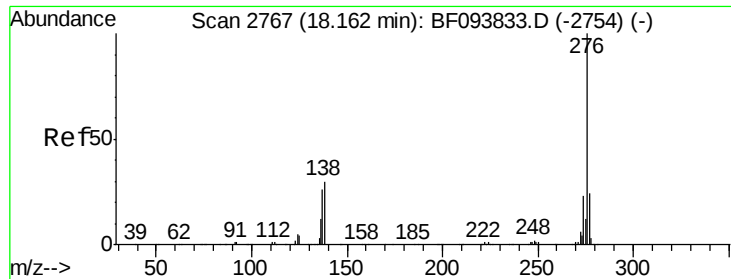
Ion Ratio Lower Upper

278 100

139 23.1 16.6 24.8

279 23.9 19.3 28.9





#91

Benzo(a,h,i)perylene

Concen: 45.97 ng

RT: 17.909 min Scan# 27

Delta R.T. -0.100 min

Lab File: BF094231.D

Acq: 6 Apr 2017 16:35

Instrument :

BNA\_F

ClientSampleId :

B4-(0-5)MSD

Tot Ion: 276 Resp: 606865

Ion Ratio Lower Upper

276 100

277 23.1 18.6 28.0

138 29.3 25.4 38.0

